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RESERVES OF CRUDE OIL, GAS, NATURAL GAS LIQUIDS AND SULPHUR PROVINCE OF ALBERTA

DECEMBER 31, 1966

DONATED JAN 9 1975

OIL AND GAS CONSERVATION BOARD
603 SIXTH AVENUE SOUTH WEST • CALGARY, ALBERTA

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PRICE $3.00

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I THE PROVED RECOVERABLE RESERVES OF CRUDE OIL IN THE PROVINCE OF ALBERTA

The Board estimates the remaining proved recoverable reserves of crude oil in Alberta as of December 31, 1966, to be some 6.76 billion stock tank barrels. The present estimate represents an increase of some 685 million stock tank barrels since December 31, 1965. A comparison of the 1965 and 1966 estimates is given below:

	Billions of Stock Tank Barrels
Remaining proved recoverable crude oil reserves at December 31, 1965	6.08
Additions to reserves during 1966	0.88
Crude oil produced during 1966	0.20
Remaining proved recoverable crude oil reserves at December 31, 1966	6.76

The addition to crude oil reserves during the year comprises some 561 million barrels attributed to new pools discovered during 1966 and about 326 million barrels attributed to development, re-evaluation or the introduction of enhanced recovery schemes in previously discovered pools.

The most significant changes in the 1966 estimates of recoverable crude oil reserves occurred in the pools listed in the following table.

	Board's Estimate as of			
Pool	Dec. 31, 1965 MMSTB	Dec. 31, 1966 MMSTB	Change MMSTB	Remarks
Bonnie Glen D-3 A	390.0	423.0	+33.0	Development and re-evaluation of gas cap - water drive efficiency

Pool	Board's Estimate as of Dec. 31, 1965 MMSTB	Board's Estimate as of Dec. 31, 1966 MMSTB	Change MMSTB	Remarks
Clive D-2 A	1.8	16.0	+14.2	Coalescence of the D-2 A and B pools and development of area between
Clive D-3 A	8.3	29.3	+21.0	Coalescence of the D-3 A and B pools and development of areas between.
Mitsue Gilwood A	134.0	168.0	+34.0	Development and re-evaluation of the efficiency of drive mechanisms
Nipisi Gilwood A	85.2	161.0	+75.8	Development and re-evaluation of the efficiency of drive mechanisms
Pembina Cardium	1,690.0	1,720.0	+30.0	Re-evaluation of solvent and water flood efficiency. Transfer of primary areas to water flood
Rainbow Keg River A	24.1	78.1	+54.0	Development and recognition of partial pressure maintenance by gas
Rainbow Keg River B	5.8	113.0	+107.2	Development and re-evaluation of natural recovery mechanism
Rainbow Keg River F	0.0	94.0	+94.0	New pool
Swan Hills Beaverhill Lake A, B	714.0	772.0	+58.0	Development and recognition of additional water flood
Swan Hills Beaverhill Lake C	70.8	154.0	+83.2	Water flood enhanced recovery

Pool	Board's Estimate as of Dec. 31, 1965 MMSTB	Board's Estimate as of Dec. 31, 1966 MMSTB	Change MMSTB	Remarks
Westerose D-3	97.0	111.0	+14.0	Re-evaluation of natural water drive efficiency
Willesden Green Cardium A	34.0	98.1	+64.1	Coalescence with Leafland and Leafland North and recognition of water flood
Confidential and Undefined Pools				
Light and Medium	73.0	169.0	+96.0	

The term "crude oil" used in this report has its ordinary meaning and excludes condensate and natural gas liquids. It does not include synthetic crude oil obtainable from oil sands, oil shale, coal, or like sources. Also excluded from this assessment is the very heavy crude oil of the type found in the Cold Lake Area.

The estimates for crude oil refer solely to proved reserves recoverable under existing economic and operating conditions. The proved reserves in any pool consist of

(1) the crude oil estimated to be recoverable by the production systems now in operation and from the area actually drilled on the spacing pattern in effect in the pool, as well as

(2) the crude oil under undrilled spacing units which are so close and so related to drilled spacing units that there is every reasonable probability

that this crude oil will be produced when the spacing units are drilled, or will be recovered from existing wells.

The reserves attributed to areas subject to enhanced recovery operations comprise reserves determined by established prediction techniques and, where applicable, confirmed or modified on the basis of performance.

The crude oil reserves have been established having regard to

(1) submissions made to the Board by industry in connection with the crude oil reserves hearings held each year in February since 1965,

(2) submissions made to the Board between annual reserves hearings respecting reserves increments due to development and enhanced recovery schemes,

(3) independent studies by the Board staff, and

(4) data presented at hearings in previous years respecting maximum permissive rates (MPR's) of production.

For the purpose of this report, the Board has reviewed the reserves of pools for which no submissions were made at the February, 1967, reserves hearing and has amended the estimates where revisions appeared warranted. The December 31, 1966, reserves established following the February, 1967, hearing and published in the Board's letter dated April 18, 1967, to all operators outlining "proration data for crude oil pools" are the same as set out in this report.

Details of the Board's estimate of the proved recoverable reserves of crude oil in the Province are set out in Table I-1 and the location of the principal pools listed in the table is shown in Figure I-1. Table I-1 is subdivided into "light and medium crude oil pools" and "heavy crude oil pools". The "light and medium" category is further subdivided into "prorated" pools and "good production practice"[1] pools. Similarly, the "heavy" category is subdivided into "pools subject to maximum rate limitations" and "good production practice" pools. Within each subdivision of the table, the pools are listed alphabetically.

In general, heavy crude oil is defined as that having a gravity of 25°API or less. The Board has made exceptions to this criterion where appropriate, having regard for market utilization of the crude oil and purchasers' categorization.

Certain of the pools in Table I-1 have been allocated proved reserves attributable to enhanced recovery schemes now in operation. For each of these pools, Table I-2 shows a comparison of the recoverable reserves and recovery factors before and after assignment of additional reserves attributable to enhanced recovery, for that part of the pool to which additional reserves have been attributed.

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[1] Good production practice - a classification utilized for pools in advanced stages of depletion or which otherwise would be subject to severe gas or water penalties. This classification is normally assigned to permit improving the economics of production and thus defer the date of abandonment.

TABLE 1-1

PROVED RESERVES OF CRUDE OIL IN THE PROVINCE OF ALBERTA, DECEMBER 31, 1966

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
LIGHT AND MEDIUM CRUDE OIL						
PRORATED POOLS						
ACHESON BLAIRMORE A	8,500	0.035	298	247	51	
ACHESON BLAIRMORE B	2,000	0.013	26	26	-	SUSPENDED APR. 1960
ACHESON BLAIRMORE C	1,500	0.200	300	283	17	
ACHESON BLAIRMORE D	211	0.085	18	18	-	NEW POOL MAY 1966
ACHESON BLAIRMORE D & I	1,196	0.050	60	7	53	
ACHESON BLAIRMORE F	1,000	0.100	100	59	41	
ACHESON BLAIRMORE G	610	0.100	61	34	27	
ACHESON BLAIRMORE H	2,580	0.070	180	108	72	
ACHESON BLAIRMORE J	1,240	0.100	124	57	67	NEW POOL JUNE 1966
ACHESON D-2 A	3,600	0.520	1,870	1,684	186	
ACHESON D-2 B	316	0.400	126	104	22	
ACHESON D-3 A	149,000	0.700	104,000 (1)	32,561	71,439	
ACHESON EAST BLAIRMORE A	2,880	0.200	566	486	80	
ACHESON EAST BLAIRMORE B	6,000	0.100	600	407	193	
AERIAL MANNVILLE	5,080	0.130	660	514	146	
ALEXANDER WABAMUN A	834	0.100	83	-	83	SUSPENDED SEPT. 1966
ALIX D-2	6,570	0.250	1,640	843	797	

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
Alliance Blairmore	5,500	0.020	110	99	11	
Ante Creek Beaverhill Lake	33,600	0.100	3,360	1,301	2,059	
Ante Creek Gilwood A	290	<0.010	1	-	1	Suspended Feb. 1966
Armisie Blairmore	5,900	0.090	531	495	36	
Barons Colorado	1,760	0.300	528 (2)	443	85	
Bashaw Ireton A	2,620	0.050	131	48	83	
Bashaw D-2 A	6,240	0.020	125	66	59	
Bashaw D-3 A	11,300	0.150	1,700	947	753	
Bashaw D-3 B	1,660	0.050	83	21	62	New Pool Nov. 1965
Battle Viking	2,670	0.320	855	824	31	
Battle North Viking	1,520	0.280	426	311	115	
Battle South Viking	3,230	0.330	1,070	971	99	
Bellshill Lake Blairmore	206,000	0.120	25,000	8,290	16,710	
Bigoray Ostracod	15,400	0.370	5,700 (1)	1,152	4,548	
Bonnie Glen Cardium A	6,500	0.140	910	727	183	
Bonnie Glen D-2 A	871	0.080	70	61	9	
Bonnie Glen D-3 A	613,000	0.690	423,000	97,117	325,883	
Boundary Lake South Triassic A	761	0.100	76	42	34	
Boundary Lake South Triassic B	825	0.100	83	1	82	Suspended July 1966
Buffalo Lake D-3	8,880	0.550	4,880	1,005	3,875	

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
CAMPBELL BLAIRMORE A	18,000	0.060	1,080	916	164	
CAMPBELL BLAIRMORE B	420	0.100	42	40	2	
NAMAO BLAIRMORE C	933	0.150	140	129	11	
NAMAO BLAIRMORE D	555	0.150	83	64	19	
NAMAO BLAIRMORE E	18,500	0.060	1,110	728	382	
NAMAO BLAIRMORE F	3,040	0.100	304	4	300	
CAROLINE CARDIUM A	1,200	0.050	60	16	44	
CAROLINE VIKING A	4,500	0.100	450	127	323	
CAROLINE VIKING B	912	0.100	91	63	28	
CAROLINE VIKING C	411	0.150	62	34	28	
CARROT CREEK CARDIUM A	9,350	0.100	935	127	808	
CARSON CREEK NORTH BEAVERHILL LAKE A						
TOTAL	66,000	- - -	29,200 (1)	3,392	25,808	
NATURAL DEPLETION	1,780	0.150	267			
WATER FLOOD	64,200	0.450	28,900			
CARSON CREEK NORTH BEAVERHILL LAKE B						
TOTAL	215,000	- -	84,000 (1)	6,933	77,067	
NATURAL DEPLETION	9,380	0.160	1,500			
WATER FLOOD	206,000	0.400	82,500			
CARSTAIRS ELKTON B	991	0.100	99	15	84	
CHAMBERLAIN BLAIRMORE	2,600	0.060	156	138	18	

(1) Pool	(2) Initial Crude Oil in Place Thousands of ST BBL	(3) Recovery Factor Fraction	(4) Initial Recoverable Crude Oil Thousands of ST BBL	(5) Cumulative Production to December 31, 1966 Thousands of ST BBL	(6) Remaining Recoverable Crude Oil as of December 31, 1966 Thousands of ST BBL	(7) Remarks
Chigwell Viking A	1,110	0.050	56	17	39	
Chigwell Viking B	1,500	0.050	75	37	38	
Chigwell D-2 A	800	0.200	160	119	41	
Chigwell D-2 B	730	0.060	44	41	3	
Chigwell D-3 A	393	-	-	-	-	Suspended Aug. 1964
Choice Blairmore	8,500	0.040	340	262	78	
Clive D-2 A	42,200	0.380	16,000	663	15,337	
Clive D-2 C	219	0.100	22	14	8	
Clive D-3 A	73,300	0.400	29,300	3,144	26,156	
Crossfield Cardium A	160,000	0.100	16,000 (2)	9,814	6,186	
Crossfield Cardium B	747	0.100	75	42	33	
Crossfield Jumping Pound A	550	0.100	55	29	26	
Crossfield Viking A	528	0.100	53	20	33	
Crossfield Elkton A	2,510	0.050	126	32	94	
Crossfield East Cardium A	721	0.100	72	12	60	New Pool July 1966
Crossfield East Cardium B	396	0.100	40	5	35	New Pool Oct. 1966
Crossfield East Elkton B	1,170	0.050	59	8	51	
Cyn-Pem Cardium A						
Total	39,900	-	13,400 (1)	1,035	12,365	
Natural Depletion	2,040	0.030	61			
Water Flood	37,900	0.350	13,300			
Cyn-Pem Cardium B	2,170	0.120	260	54	206	New Pool Aug. 1966
Cyn-Pem Cardium C	947	0.120	114	24	90	New Pool Aug. 1966

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
Drumheller D-2 A	8,160	0.650	5,300	3,066	2,234	
Drumheller D-2 B	9,620	0.450	4,330	563	3,767	
Duhamel Wabamun A	302	0.100	30	20	10	
Duhamel D-2 A	12,300	0.450	5,540	3,285	2,255	
Duhamel D-3 A	1,200	0.100	120	110	10	
Duhamel D-3 B	14,100	0.500	7,050	3,357	3,693	
Eaglesham D-3 A	3,470	0.450	1,560	622	938	
Edson Cardium A	533	0.120	64	45	19	
Edson Cardium B	23,600	0.120	2,830 (2)	816	2,014	
Ellerslie Blairmore A	500	0.100	50	26	24	
Ellerslie Blairmore B	1,170	0.350	410	376	34	
Erskine D-2	2,870	0.150	430	156	274	
Erskine D-3	38,600	0.500	19,300	12,578	6,722	
Ethel Beaverhill Lake A	8,100	0.010	81	17	64	
Ewing Lake D-2 A	950	0.200	190	181	9	
Ewing Lake D-2 B	3,140	0.350	1,100	281	819	
Ewing Lake D-2 C	2,820	0.200	564	363	201	
Ewing Lake D-3 A	3,250	0.400	1,300	821	479	
Excelsior Mannville A	4,400	< 0.010	4	4	-	Suspended Aug. 1958
Excelsior D-2	30,800	0.650	20,000	11,807	8,193	
Fairydell-Bon Accord D-2 A	6,500	0.120	782	782	-	Abandoned Jan. 1962
Fairydell-Bon Accord D-2 B	4,210	0.380	1,600	813	787	
Fairydell-Bon Accord D-3 A	17,400	0.550	9,570	4,037	5,533	

(1)	(2)	(3)	(4)	(5)	(6)	(7)
POOL	INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	RECOVERY FACTOR FRACTION	INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	REMARKS
Fenn-Big Valley D-2 A	357,000	0.670	239,000	79,406	159,594	
Big Valley D-3 A	3,390	0.470	1,590	1,505	85	
Big Valley D-3 B	1,640	0.450	738	184	554	
Fenn D-3 C	690	0.200	138	8	130	
Fenn D-3 E	1,450	0.110	160	137	23	
Fenn D-3 F	14,900	0.650	9,690	3,976	5,714	
Fenn West D-2 A	16,000	0.400	6,400	1,910	4,490	
Ferrier Cardium A	1,530	< 0.010	1	1	-	Suspended March 1964
Ferrier Cardium B	846	0.080	68	51	17	
Ferrier Cardium C	411	0.080	33	18	15	
Ferrier Cardium D	12,700	0.080	1,030	136	894	
Ferrier Cardium E	17,200	0.080	1,380	92	1,288	New Pool Apr. 1966
Ferrier Viking A	20,000	0.100	2,000	904	1,096	
Freeman Beaverhill Lake A	33,300	0.150	5,000	643	4,357	
Garrington Cardium A & B						
Total	163,000		23,400 (1)	7,870	15,530	
Natural Depletion	15,000	0.080	1,200			
Water Flood	148,000	0.150	22,200			
Ghost Pine Upper Mannville V	258	0.100	26	5	21	Suspended Sept. 1966
Ghost Pine Upper Mannville W	1,260	0.100	126	1	125	Suspended Sept. 1966
Ghost Pine Upper Mannville X	914	< 0.010	1	-	1	Suspended Dec. 1966
Ghost Pine Lower Mannville D	1,500	0.100	150	20	130	New Pool Aug. 1966

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
GHOST PINE LOWER MANNVILLE E	705	0.100	71	14	57	NEW POOL AUG. 1966
GHOST PINE PEKISKO F	692	0.100	69	8	61	NEW POOL AUG. 1966
GILBY BELLY RIVER A	1,800	0.100	180	54	126	
GILBY BELLY RIVER B	1,940	0.100	194	23	171	
GILBY CARDIUM A	408	0.150	61	34	27	
GILBY VIKING A						
TOTAL	38,400	-	17,200 (1)	10,554	6,646	
NATURAL DEPLETION	585	0.200	117			
WATER FLOOD	37,900	0.450	17,100			
GILBY VIKING B	7,030	0.200	1,410	802	608	
GILBY VIKING C	424	0.200	85	64	21	
GILBY BASAL MANNVILLE B	51,100	0.050	2,560	776	1,784	
GILBY JURASSIC B	80,000	0.120	9,600 (2)	2,440	7,160	
GILBY JURASSIC F	10,500	0.150	1,580	360	1,220	
GILBY RUNDLE B	1,100	0.020	22	13	9	SUSPENDED OCT. 1966
GILBY RUNDLE E	880	0.100	88	54	34	
GILBY RUNDLE F	2,810	0.010	1	1	-	SUSPENDED FEB. 1966
GIROUX LAKE VIKING A	3,780	0.150	567	124	443	
GLEN PARK GLAUCONITIC A	1,220	0.180	220	210	10	
GLEN PARK GLAUCONITIC B	830	0.150	124	27	97	
GLEN PARK D-2 A	1,910	0.100	191	125	66	
GLEN PARK D-3 A	26,700	0.670	17,900	4,747	13,153	

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
GOLDEN SPIKE D-2 A	13,700	0.400	5,500 (1)	1,089	4,411	
GOLDEN SPIKE D-2 B	1,920	0.120	230	209	21	
GOLDEN SPIKE D-3 A	310,000	0.900	279,000 (1)	40,541	238,459	
GOLDEN SPIKE D-3 B	3,980	0.300	1,190	583	607	
GOLDEN SPIKE D-3 C	2,110	0.350	739	603	136	
GOOSE RIVER BEAVERHILL LAKE A	145,000	0.160	23,200	1,832	21,368	
GOOSE RIVER BEAVERHILL LAKE B	1,050	0.160	168	41	127	NEW POOL MARCH 1966
HAMILTON LAKE VIKING A	31,300	0.130	4,070 (2)	2,624	1,446	
HAMILTON LAKE VIKING C	254	0.100	25	7	18	NEW POOL JAN. 1966
HAMILTON LAKE VIKING D	557	0.100	56	20	36	NEW POOL SEPT. 1966
HARMATTAN EAST BLAIRMORE	1,800	0.100	180	109	71	
HARMATTAN EAST RUNDLE	179,000	0.350	62,600	16,199	46,401	
HARMATTAN-ELKTON RUNDLE B	712	0.100	71	35	36	
HARMATTAN-ELKTON RUNDLE C	188,000	0.310	58,300	18,806	39,494	
HUSSAR GLAUCONITIC A	835	0.030	25	24	1	
HUSSAR GLAUCONITIC B	425	0.100	43	10	33	
HUSSAR GLAUCONITIC C	260	0.050	13	13	-	SUSPENDED JAN. 1963
HUSSAR GLAUCONITIC E	1,100	0.050	55	45	10	
HUSSAR GLAUCONITIC F	467	0.060	28	26	2	
HUSSAR GLAUCONITIC G	679	0.150	102	65	37	
HUSSAR GLAUCONITIC K	747	0.050	37	22	15	
HUSSAR OSTRACOD A	43,900	0.310	13,600	4,021	9,579	
HUSSAR OSTRACOD C	500	0.020	10	10	-	ABANDONED SEPT. 1961
HUSSAR OSTRACOD H	300	0.010	3	3	-	ABANDONED APR. 1963

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
Hussar Ostracod O	389	0.100	39	25	14	
Hussar Ostracod P	786	0.100	79	17	62	
Hussar Basal Mannville A	605	0.038	23	23	-	Abandoned July 1963
Hussar Basal Mannville C	630	0.100	63	58	5	
Hussar Basal Mannville E	1,350	0.013	18	18	-	Suspended Jan. 1963
Hussar Basal Mannville G	1,400	0.010	2	2	-	Suspended Mar. 1962
Hussar Basal Mannville H	1,800	0.010	1	1	-	Abandoned Dec. 1961
Hussar Basal Mannville I & Z	1,010	0.100	101	53	48	
Hussar Basal Mannville L	224	0.058	13	13	-	Suspended Sept. 1963
Hussar Basal Mannville M	1,680	0.100	168	33	135	
Hussar Basal Mannville N	973	0.100	97	29	68	
Hussar Basal Mannville O	9,780	0.100	978	122	856	
Hussar Basal Mannville P	1,560	0.100	156	22	134	
Hussar Basal Mannville Q	1,780	0.100	178	141	37	New Pool Aug. 1965
Hussar Basal Mannville Z	381	0.100	38	23	15	New Pool Nov. 1966
Innisfail Blairmore	522	0.059	31	31	-	Suspended June 1960
Innisfail D-3	120,000	0.550	66,000	20,291	45,709	
Joarcam Viking	150,000	0.400	60,000 (2)	53,977	6,023	

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 21, 1966 THOUSANDS OF ST BBL	(7) REMARKS
JOFFRE VIKING	80,100	0.410	32,800 (1)	31,833	967	
JOFFRE BLAIRMORE A	1,210	0.050	60	36	24	
JOFFRE BLAIRMORE B	1,100	0.100	110	81	29	
JOFFRE D-2	140,000	0.140	19,600	16,265	3,335	
JOFFRE SOUTH VIKING	1,250	0.290	362	345	17	
JUDY CREEK BEAVERHILL LAKE A	809,000	0.450	364,000 (1)	33,600	330,400	
JUDY CREEK BEAVERHILL LAKE B	256,000	0.480	123,000 (1)	9,419	113,581	
JUDY CREEK SOUTH BEAVERHILL LAKE	15,000	0.200	3,000 (1)	470	2,530	
KAYBOB CADOMIN B	18,700	0.050	935	210	725	
KAYBOB BEAVERHILL LAKE A	300,000	0.400	120,000 (1)	19,449	100,551	
KAYBOB BEAVERHILL LAKE B	1,310	0.160	210	70	140	
KAYBOB SOUTH TRIASSIC A	131,000	0.150	19,600	5,160	14,440	
KESSLER VIKING A	1,360	0.100	136	90	46	
KNAPPEN LOWER MANNVILLE A	667	0.100	67	21	46	NEW POOL JAN. 1966
LANAWAY CARDIUM	12,000	0.060	720	377	343	
LANAWAY MANNVILLE	3,200	0.050	160	98	62	
LANAWAY D-3 A	1,540	0.020	31	10	21	
LEDUC-WOODBEND BLAIRMORE A	7,500	0.170	1,270	1,135	135	
LEDUC-WOODBEND BLAIRMORE B	172	0.070	12	12	-	ABANDONED JUNE 1962
LEDUC-WOODBEND BLAIRMORE C	400	< 0.010	1	1	-	ABANDONED AUG. 1956
LEDUC-WOODBEND BLAIRMORE D	3,000	0.020	60	60	-	ABANDONED NOV. 1962
LEDUC-WOODBEND BLAIRMORE E	3,800	0.030	114	97	17	
LEDUC-WOODBEND BLAIRMORE F	4,200	< 0.010	21	21		ABANDONED NOV. 1963

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
LEDUC-WOODBEND BLAIRMORE G	800	< 0.010	4	4	-	ABANDONED NOV. 1954
LEDUC-WOODBEND BLAIRMORE H	240	< 0.020	3	3	-	ABANDONED MAY 1951
LEDUC-WOODBEND BLAIRMORE I	871	< 0.010	1	-	1	SUSPENDED JUNE 1966
LEDUC-WOODBEND BLAIRMORE J	5,850	0.400	2,340	2,126	214	
LEDUC-WOODBEND BLAIRMORE K	1,920	0.120	230	227	3	
LEDUC-WOODBEND D-1 A	1,000	0.020	20	11	9	
LEDUC-WOODBEND D-1 B	250	0.200	50	35	15	
LEDUC-WOODBEND D-2 A	205,000	0.450	92,300 (1)	75,105	17,195	
LEDUC-WOODBEND D-2 B	73,200	0.280	20,500 (2)	20,007	493	
LEDUC-WOODBEND D-2 C	2,600	0.510	1,330	1,304	26	
LEDUC-WOODBEND D-2 D	410	0.550	226	217	9	
LEDUC-WOODBEND D-2 E	1,100	0.550	605	592	13	
LEDUC-WOODBEND D-2 F	1,300	0.200	260	124	136	
LEDUC-WOODBEND D-3 A	295,000	0.700	207,000 (1)	161,987	45,013	
LEDUC-WOODBEND D-3 B	14,800	0.450	6,650	6,397	253	
LEDUC-WOODBEND D-3 C	837	0.540	452	449	3	
LEDUC-WOODBEND D-3 D	714	0.391	279	279	-	ABANDONED JAN. 1966
LEGAL VIKING	2,000	0.400	800	702	98	
LEGAL MANNVILLE B	240	0.025	6	6	-	
LITTLE SMOKY D-3	2,500	0.400	1,000	736	264	
LOCHEND CARDIUM A	7,840	0.100	784	181	603	

	(2)	(3)	(4)	(5)	(6)	(7)
	INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	RECOVERY FACTOR FRACTION	INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	REMARKS
LONE PINE CREEK D-2 A	606	0.100	61	14	47	
LONE PINE CREEK D-3 A	7,050	0.100	705	75	630	
LOON SLAVE POINT A	24,100	0.100	2,410	35	2,375	NEW POOL JULY 1966
LOON GRANITE WASH A	5,400	0.200	1,080	36	1,044	NEW POOL JULY 1966
LOUSANA D-2	2,610	0.330	860	228	632	
MALMO BLAIRMORE A	5,000	0.200	1,000	805	195	
MALMO D-2 A	16,200	0.430	6,970	4,799	2,171	
MALMO D-3 A	9,530	0.500	4,760	2,579	2,181	
MALMO D-3 C	445	0.050	22	4	18	
MEDICINE RIVER CARDIUM A	520	< 0.010	1	1	-	SUSPENDED SEPT. 1964
MEDICINE RIVER CARDIUM B	969	0.080	78	4	74	
MEDICINE RIVER VIKING A	400	0.060	24	21	3	
MEDICINE RIVER GLAUCONITIC A	3,200	0.100	320	150	170	
MEDICINE RIVER GLAUCONITIC B	1,800	0.100	180	35	145	
MEDICINE RIVER GLAUCONITIC C	6,280	0.100	628	131	497	
MEDICINE RIVER GLAUCONITIC D	3,840	0.070	269	47	222	
MEDICINE RIVER OSTRACOD A	6,700	0.100	670	217	453	
MEDICINE RIVER OSTRACOD B	685	0.150	103	65	38	
MEDICINE RIVER OSTRACOD C	2,040	0.020	41	19	22	
MEDICINE RIVER OSTRACOD G	917	0.100	92	34	58	
MEDICINE RIVER OSTRACOD H	596	0.100	60	10	50	

	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
MEDICINE RIVER BASAL QUARTZ B	36,200	0.100	3,620 (2)	625	2,995	
MEDICINE RIVER BASAL QUARTZ C	412	0.010	3	3	-	ABANDONED AUG. 1963
MEDICINE RIVER BASAL QUARTZ D	2,470	0.050	123	55	68	
MEDICINE RIVER BASAL QUARTZ F	871	0.010	4	4	-	ABANDONED OCT. 1966
MEDICINE RIVER BASAL QUARTZ G	8,020	0.050	401	70	331	
MEDICINE RIVER BASAL QUARTZ H	1,000	0.100	100	27	73	
MEDICINE RIVER BASAL QUARTZ I	1,650	0.050	83	40	43	
MEDICINE RIVER JURASSIC A	32,400	0.350	11,300 (1)	2,303	8,997	
MEDICINE RIVER JURASSIC B	7,300	0.120	875	161	714	
MEDICINE RIVER JURASSIC C	52,900	0.120	6,350	1,144	5,206	
MEDICINE RIVER JURASSIC D	53,200	0.150	7,980	910	7,070	
MEDICINE RIVER JURASSIC E	895	0.050	45	5	40	
MEDICINE RIVER ELKTON A	2,000	0.030	60	46	14	
MEDICINE RIVER PEKISKO B	5,470	0.150	820	239	581	
MEDICINE RIVER PEKISKO C	20,900	0.020	418	199	219	
MEDICINE RIVER PEKISKO D	200	0.100	20	13	7	
MEDICINE RIVER PEKISKO E	14,900	0.100	1,490	198	1,292	
MEDICINE RIVER PEKISKO F	3,260	0.010	10	7	3	
MEDICINE RIVER PEKISKO G	1,160	0.010	1	1	-	SUSPENDED AUG. 1965
MEDICINE RIVER PEKISKO H	1,500	0.020	30	11	19	
MEDICINE RIVER PEKISKO I	34,600	0.200	6,920	859	6,061	
MEDICINE RIVER PEKISKO J	1,000	0.020	20	7	13	

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
Minnehik-Buck Lake Cardium A	610	0.050	31	20	11	New Pool Jan. 1966
Minnehik-Buck Lake Viking A	1,670	0.150	251	4	247	Suspended Nov. 1966
Mitsue Gilwood A	731,000	0.230	168,000	6,644	161,356	
Morinville Lower Mannville A	1,250	0.020	25	14	11	
Morinville Lower Mannville F	442	0.100	44	13	31	
Morinville Lower Mannville L	813	0.050	41	9	32	
Morinville D-1 A	352	0.128	45	45	-	Abandoned Oct. 1960
Morinville D-3 A	570	0.300	171	144	27	
Morinville D-3 B	16,700	0.550	9,190	307	8,883	
Morinville D-3 C	1,380	0.300	414	70	344	
Nevis D-2	2,700	0.033	89	89	-	Suspended May 1962
New Norway Blairmore	435	< 0.010	1	1	-	Abandoned June 1956
New Norway D-2	12,000	0.600	7,200	3,270	3,930	
New Norway D-3	2,000	0.500	1,000	900	100	
Nipisi Gilwood A	618,000	0.260	161,000	3,010	157,990	
Nipisi Gilwood B	4,390	0.200	878	62	816	New Pool May 1966
Niton Basal Quartz B	16,700	0.150	2,510	53	2,457	New Pool Apr. 1966
Normandville Jurassic A	754	0.011	8	8	-	Abandoned Nov. 1961
Normandville Mississippian B	147	0.040	6	6	-	Abandoned Nov. 1961
Normandville D-1 A	3,330	0.150	500	418	82	
Normandville D-3 A	2,590	0.500	1,300	582	718	
Normandville D-3 B	3,540	0.430	1,520	662	858	

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
Olds Wabamun A	40,600	0.200	8,120	248	7,872	
Peavey Viking	2,950	0.070	200	164	36	
Peavey Blairmore	3,640	0.140	510	457	53	
Pembina Keystone Belly River B	165,000	0.150	24,800	2,365	22,435	
Pembina Keystone Belly River C	48,800	0.150	7,320	1,180	6,140	
Pembina Belly River G	1,360	0.110	150	138	12	
Pembina Belly River H	5,810	0.050	291	146	145	
Pembina Belly River I	40,100	0.150	6,000	2,167	3,833	
Pembina Belly River J	10,200	0.170	1,730	300	1,430	
Pembina Keystone Belly River K	865	0.150	130	51	79	
Pembina Keystone Belly River L	19,300	0.150	2,900	544	2,356	
Pembina Keystone Belly River M	39,100	0.120	4,700	847	3,853	
Pembina Keystone Belly River O	1,850	0.100	185	34	151	
Pembina Keystone Belly River P	842	< 0.010	-	-	-	Suspended Jan. 1965
Pembina Belly River Q	1,020	0.060	61	52	9	
Pembina Keystone Belly River R	3,200	< 0.010	-	-	-	Abandoned Mar. 1966
Pembina Keystone Belly River U	8,700	0.150	1,300	354	946	
Pembina Keystone Belly River W	1,370	0.010	3	3	-	Suspended July 1966
Pembina Keystone Belly River X	8,840	0.132	1,170	106	1,064	
Pembina Belly River AA	15,950	0.150	2,390	39	2,351	New Pool Mar. 1966
Pembina Cardium						
Total	7,670,000		1,720,000 (1)	427,490	1,292,510	
Natural Depletion	1,767,000	0.089	158,000			
Solvent Flood	426,000	0.322	137,000			
Water Flood	4,890,000	0.276	1,350,000			
Gas Flood	75,600	0.151	11,400			
Partial Gas Flood	512,000	0.120	61,400			

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
Pembina Keystone Blairmore A	3,850	0.050	192	159	33	
Pembina Pekisko A	742	0.150	111	81	30	
Provost Viking A & B	2,780	0.100	278	154	124	
Rainbow Keg River A	142,000	0.550	78,100	1,060	77,040	New Pool Feb. 1966
Rainbow Keg River B	252,000	0.450	113,000	1,025	111,975	New Pool Feb. 1966
Rainbow Keg River F	188,000	0.500	94,000	298	93,702	New Pool Sept. 1966
Red Earth Slave Point A	20,000	0.100	2,000	95	1,905	
Red Earth Granite Wash A	67,300	0.300	20,200	557	19,643	
Red Earth Granite Wash B	482	0.200	96	17	79	
Red Earth Granite Wash C	21,200	0.300	6,360	272	6,088	
Red Earth Granite Wash D	3,000	0.050	150	11	139	New Pool Jan. 1966
Redwater D-3	1,300,000	0.600	780,000	324,130	455,870 ~~45,870~~	
Retlaw Mannville A	396	0.010	2	2	-	Suspended Dec. 1959
Retlaw Mannville B	621	0.011	7	7	-	Suspended Dec. 1966
Rocky Mountain House Cardium	7,860	0.080	630	570	60	
Rosebud Blairmore	2,400	0.130	312	247	65	
Rowley Pekisko A	19,700	0.030	591	284	307	
Big Lake D-1 A	1,600	0.200	320	229	91	
St. Albert-D-1 B	320	0.150	48	43	5	
Big Lake D-2 A	2,500	0.400	1,000	663	337	
Big Lake D-3 A	23,300	0.600	14,000	2,808	11,192	
St. Albert D-3 B	8,000	0.550	4,400	1,470	2,930	

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
Samson Blairmore A	6,500	0.030	195	105	~~14~~ 90	
Sieu Lake Lower Mannville C	369	0.100	37	32	5	
Simonette D-3	87,000	0.550	47,800	5,790	42,010	
Skaro Cooking Lake	710	0.120	85	67	18	
Snipe Lake Beaverhill Lake	198,000	0.389	77,000 (1)	7,918	69,082	
Spring Coulee Rundle	2,600	0.030	78	68	10	
Stettler D-2 A	58,000	0.410	24,000 (1)	15,413	8,587	
Stettler D-3 A	32,500	0.550	17,900	6,945	10,955	
Stettler D-3 B	1,830	0.500	915	466	449	
Stettler South D-2	10,000	0.280	2,800	677	2,123	
Stettler South D-3	2,000	0.400	800	657	143	
Sturgeon Lake D-3	44,400	0.500	22,200	5,737	16,463	
Sturgeon Lake South Triassic A	15,000	0.010	1,500	1,111	389	
Sturgeon Lake South Triassic B	7,560	0.250	1,890	450	1,440	
Sturgeon Lake South D-2	360	0.050	18	18	-	Abandoned June 1962
Sturgeon Lake South D-3	265,000	0.550	146,000	30,846	115,154	
Sundre Rundle A	80,200	0.400	32,100 (1)	11,156	20,944	
Sundre Rundle B	17,500	0.160	2,800	789	2,011	
Sunset Triassic A	12,200	0.100	1,220	194	1,026	
Swalwell Pekisko B	1,210	0.100	121	17	104	New Pool Aug. 1966
Swan Hills Beaverhill Lake A & B						
Total	1,940,000	-	772,000 (1)	66,206	705,794	
Natural Depletion	234,000	0.120	28,100			
Water Flood	1,710,000	0.435	744,000			

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
Swan Hills Beaverhill Lake C						
Total	550,000	-	154,000 (1)	12,032	141,968	New Pool June 1966
Natural Depletion	152,000	0.100	15,200			
Water Flood	398,000	0.350	139,000			
Swan Hills South Beaverhill Lake A & B						
Total	898,000	-	392,000 (1)	34,964	357,036	
Natural Depletion	37,600	0.137	5,150			
Water Flood	860,000	0.450	387,000			
Sylvan Lake Cardium A	1,630	0.100	163	82	81	
Sylvan Lake Glauconitic C	2,120	0.050	106	47	59	
Sylvan Lake Glauconitic E	953	0.100	95	18	77	
Sylvan Lake Basal Quartz A	2,740	0.050	137	28	109	
Sylvan Lake Ostracod A	1,600	< 0.010	5	5	-	
Sylvan Lake Detrital B	6,120	< 0.010	15	8	7	Suspended Aug. 1966
Sylvan Lake Detrital C	700	< 0.010	1	1	-	Abandoned Sept. 1966
Sylvan Lake Jurassic A	26,300	0.100	2,630	473	2,157	
Sylvan Lake Jurassic B	1,400	< 0.010	5	5	-	Suspended Apr. 1965
Sylvan Lake Jurassic C	2,600	0.010	26	19	7	
Sylvan Lake Jurassic D	2,700	0.100	270	58	212	
Sylvan Lake Jurassic E	4,570	< 0.010	20	15	5	
Sylvan Lake Jurassic I	2,350	< 0.010	2	2	-	Suspended Dec. 1965
Sylvan Lake Jurassic J	2,640	0.010	26	9	17	

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
SYLVAN LAKE ELKTON B	5,470	0.150	820	88	732	
SYLVAN LAKE ELKTON C	30,000	0.150	4,500	395	4,105	
SYLVAN LAKE ELKTON D	830	0.000	0	--	--	SUSPENDED JULY 1963
SYLVAN LAKE ELKTON E	702	0.050	35	9	26	
SYLVAN LAKE ELKTON F	2,860	0.100	286	50	236	
SYLVAN LAKE PEKISKO B	42,900	0.150	6,430	734	5,696	
SYLVAN LAKE PEKISKO C	14,300	0.100	1,430	259	1,171	
SYLVAN LAKE PEKISKO D	10,100	0.100	1,010	354	656	
SYLVAN LAKE PEKISKO E	2,280	< 0.010	4	4	--	SUSPENDED NOV. 1964
SYLVAN LAKE PEKISKO F	830	< 0.040	3	3	--	SUSPENDED AUG. 1963
SYLVAN LAKE PEKISKO G	5,220	< 0.010	1	1	--	SUSPENDED MAY 1964
SYLVAN LAKE PEKISKO M	2,680	< 0.010	1	1	1	SUSPENDED APR. 1965
SYLVAN LAKE D-3 A	10,200	0.030	306	70	236	
THOMPSON LAKE BLAIRMORE	15,000	0.100	1,500	1,003	497	
THREE HILLS OSTRACOD A	10,200	0.050	510	236	274	
TWINING RUNDLE A	34,000	0.100	3,400	836	2,564	
TWINING RUNDLE B	538	< 0.010	--	--	--	ABANDONED FEB. 1966
TWINING NORTH RUNDLE	43,000	0.100	4,300	465	3,835	
TWINING NORTH BANFF	180	< 0.010	1	--	1	ABANDONED SEPT.1966
UTIKUMA LAKE KEG RIVER SANDSTONE A	55,100	0.300	16,500	904	15,596	FORMERLY GRANITE WASH A POOL

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
VIRGINIA HILLS BEAVERHILL LAKE						
TOTAL	450,000		174,000 (1)	20,868	153,132	
NATURAL DEPLETION	23,200	0.150	3,480			
WATER FLOOD	427,000	0.400	171,000			
WATERTON RUNDLE B	424	< 0.010	3	3	-	SUSPENDED JAN. 1960
WAYNE-ROSEDALE GLAUCONITIC C	2,300	0.050	115	46	69	
WAYNE-ROSEDALE BASAL QUARTZ B	14,900	0.050	745	592	153	
WAYNE-ROSEDALE BASAL QUARTZ E	4,126	0.086	354	35	319	
WAYNE-ROSEDALE BASAL QUARTZ F	100	0.050	5	5	-	ABANDONED DEC. 1958
WAYNE-ROSEDALE BASAL QUARTZ G	488	< 0.010	1	1	-	ABANDONED AUG. 1963
WAYNE-ROSEDALE BASAL QUARTZ H	991	0.020	20	15	5	
WAYNE-ROSEDALE BASAL QUARTZ O	1,150	0.030	35	24	11	
WEST DRUMHELLER D-2 A	41,300	0.630	26,000	13,427	12,573	
WEST DRUMHELLER D-2 B	80	0.100	8	6	2	
WEST DRUMHELLER D-3 A	7,850	0.570	4,470	2,237	2,233	
WESTEROSE D-3	159,000	0.700	111,000	20,792	90,208	
WESTWARD HO VIKING A	465	0.050	23	13	10	
WESTWARD HO RUNDLE A	35,000	0.160	5,600 (2)	4,906	694	
WHITEMUD BLAIRMORE	1,500	0.180	270	255	15	
WILLESDEN GREEN BELLY RIVER A	9,460	0.100	946	224	722	
WILLESDEN GREEN BELLY RIVER B	12,000	0.030	360	119	241	
WILLESDEN GREEN BELLY RIVER C	267	0.030	23	23	-	ABANDONED OCT. 1964
WILLESDEN GREEN CARDIUM						
TOTAL	543,000	-	98,100 (1)	17,649	80,451	
NATURAL DEPLETION	222,000	0.080	17,800			
WATER FLOOD	321,000	0.250	80,300			

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
Willesden Green Viking A	2,610	0.150	392	262	130	Formerly Leafland Viking A
Willesden Green Glauconitic A	11,000	0.100	1,100	239	861	Formerly Leafland Glauconitic A
Wimborne D-2 A	4,300	0.200	860	322	538	
Wimborne D-2 B	2,070	0.100	207	31	176	
Wimborne D-3 A	94,700	0.063	6,000	1,587	4,413	
Windfall Rundle A	1,000	0.150	150	79	71	
Windfall D-3 A	102,000	0.030	3,060	1,260	1,800	
Wintering Hills Viking A	8,810	0.420	3,700	730	2,970	Formerly Hutton Viking
Wintering Hills Lower Mannville A	13,900	0.050	695	36	659	
Wintering Hills Lower Mannville E	5,370	0.050	269	22	247	New Pool July 1966
Wintering Hills Lower Mannville F	464	< 0.010	1	-	1	Abandoned Feb. 1966
Wizard Lake Basal Quartz A	505	< 0.010	3	3	-	Abandoned Apr. 1960
Wizard Lake Basal Quartz B	551	< 0.010	2	2	-	Abandoned May 1960
Wizard Lake D-2 A	2,740	0.200	548	472	76	
Wizard Lake D-3 A	380,000	0.640	243,000	51,147	191,853	
Wizard Lake D-3 B	1,010	0.300	303	55	248	
Wood River D-2 A	4,000	0.150	600	76	524	
Wood River D-2 B	2,310	0.100	231	31	200	
Wood River D-3 A	1,850	0.150	278	134	144	

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
Worsley Triassic A	1,250	0.200	250	99	151	
Worsley D-3 A	77	0.020	2	2	-	Suspended Nov. 1961
Worsley D-3 F	1,180	0.100	118	5	113	
Yekau Lake D-2	602	< 0.010	1	1	-	Abandoned July 1964
Yekau Lake D-3	5,560	0.650	3,610	1,033	2,577	
Youngstown Arcs	4,620	0.130	600	308	292	
Undefined and Confidential Pools	578,429		169,837	7,022	162,815	
SUBTOTAL	26,126,187		8,709,892	2,049,576	6,660,316	
GOOD PRODUCTION PRACTICE POOLS						
Del Bonita Rundle	2,000	0.250	500	479	21	
Drumheller Mannville A	3,200	0.013	42	42	-	Suspended Jan. 1962
Homeglen Rimbey D-3	93,500	0.075	7,000	5,337	1,663	
Red Coulee Moulton A	2,190	0.100	219	190	29	
Red Coulee Moulton B	4,080	0.100	408	109	299	
Red Coulee Moulton C	1,460	0.250	365	274	91	
Turner Valley Shallow	4,400	0.120	536	536	-	
Turner Valley Rundle	1,000,000	0.120	120,000 (2)	115,315	4,685	
SUBTOTAL	1,110,890		129,070	122,282	6,788	
TOTAL LIGHT AND MEDIUM CRUDE OIL	27,237,077		8,838,962	2,171,858	6,667,104	

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
HEAVY CRUDE OIL						
POOLS SUBJECT TO MAXIMUM RATE LIMITATION						
Alderson Lower Mannville A	2,390	0.100	239	145	94	
Alderson Lower Mannville B	9,190	0.100	919	162	757	
Alderson Lower Mannville C	7,000	0.100	700	185	515	New Pool Aug. 1966
Auburndale Wainwright A	1,610	0.050	81	16	65	
Bantry Mannville A	104,000	0.220	22,900	4,367	18,533	
Bantry Mannville B	9,530	0.200	1,910	249	1,661	
Bantry Mannville C	32,600	0.200	6,500	677	5,823	
Bantry Mannville D	16,600	0.200	3,300	368	2,932	
Bantry Mannville F	4,250	0.100	425	111	314	
Bantry Mannville G	2,380	0.100	238	51	187	
Bantry Mannville H	630	0.050	32	1	31	
Bantry Mannville I	262	0.150	39	15	24	
Bonnyville Colony	4,920	0.039	193	193	-	Abandoned 1960
Cessford Basal Colorado A	76,800	0.100	7,680	3,731	3,949	New Pool Aug. 1966
Cessford Mannville B	790	0.080	63	54	9	
Cessford Mannville C	48,000	0.050	2,400	1,048	1,352	
Cessford Mannville D	6,600	0.100	660	358	302	
Cessford Mannville E	936	0.060	56	26	30	
Cessford Mannville Q	2,100	0.010	21	1	20	Suspended May 1966
Cessford Pekisko A	400	0.030	12	9	3	
Chauvin Mannville A						
Total	22,000		4,200 (1)	2,024	2,176	
Natural Depletion	2,240	0.110	246			
Water Flood	19,700	0.200	3,940			

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
Chauvin Mannville B	1,400	0.100	140	72	68	
Chauvin South Mannville	2,570	0.040	103	91	12	
Chin Coulee Basal Mannville A	5,740	0.100	574	318	256	
Chin Coulee Basal Mannville B	1,030	0.100	103	18	85	
Countess Upper Mannville B	18,600	0.100	1,860	69	1,791	New Pool Feb. 1966
Countess Basal Quartz B	1,460	0.050	73	15	58	New Pool May 1966
Countess Basal Quartz D	-	-	-	-	-	Suspended June 1960
Glenevis Banff	24,500	0.200	4,900	2,029	2,871	
Grand Forks Sawtooth A	5,900	0.100	590	56	534	New Pool Feb. 1966
Hays Lower Mannville A	15,000	0.100	1,500	195	1,305	New Pool May 1966
Hazeldine Mannville A	8,790	0.010	88	19	69	
Horsefly Lake Mannville	16,000	0.100	1,600	427	1,173	
Hughenden Blairmore A	9,730	0.010	97	78	19	
Hughenden Blairmore B	10,800	0.010	108	45	63	
Jenner Upper Mannville A	285	0.150	43	17	26	
Jenner Upper Mannville B	1,750	0.100	175	35	140	
Jenner Upper Mannville C	4,000	0.100	400	54	346	
Jenner Upper Mannville D	1,110	0.100	111	14	97	
Jenner Upper Mannville E	7,240	0.100	724	50	674	
Jenner Upper Mannville F	27,400	0.050	1,370	66	1,304	
Jenner Lower Mannville A	1,630	0.010	16	2	14	
Jenner Pekisko A	600	0.100	60	18	42	
Lloydminster Sparky	246,000	0.100	24,600 (2)	14,615	9,985	
Lloydminster Colony	1,000	0.100	100	94	6	

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
Matziwin Pekisko A	5,800	0.200	1,160	179	981	
Matziwin Pekisko B	1,060	0.050	53	13	40	
Paddle River Rundle	10,100	0.200	2,020	366	1,654	
Retlaw Mannville F	691	0.010	1	1	-	Abandoned Jan. 1966
Retlaw Mannville I	6,900	0.100	689	64	625	
Taber Mannville C	4,620	0.030	139	99	40	
Taber South Mannville A	57,400	0.100	5,740	645	5,095	
Taber South Mannville B	39,600	0.070	2,770	773	1,997	
Taber South-East Mannville A	6,300	0.100	630	282	348	
Taber South-East Mannville B	333	-	-	-	-	Suspended Jan. 1966
Vermilion Sparky	27,000	0.050	1,350	1,348	2	New Pool Dec. 1966
Wainwright Wainwright						
Total	125,000		24,200 (1)	10,400	13,800	
Natural Depletion	6,170	0.060	370			
Water Flood	119,000	0.200	23,800			
Wildmere Sparky B	7,000	0.100	700	29	671	New Pool Oct. 1966
Undefined and Confidential Pools	100,748		8,548	1,335	7,213	
SUBTOTAL	1,158,075		139,903	47,722	92,181	
GOOD PRODUCTION PRACTICE POOLS						
Baxter Lake Wainwright	5,640	0.100	564	423	141	
Conrad Ellis	12,000	0.220	2,640	2,359	281	
Dina Sparky	2,620	0.100	262	195	67	
Harold Lake Colony	810	0.030	24	10	14	Suspended Apr. 1959

(1) POOL	(2) INITIAL CRUDE OIL IN PLACE THOUSANDS OF ST BBL	(3) RECOVERY FACTOR FRACTION	(4) INITIAL RECOVERABLE CRUDE OIL THOUSANDS OF ST BBL	(5) CUMULATIVE PRODUCTION TO DECEMBER 31, 1966 THOUSANDS OF ST BBL	(6) REMAINING RECOVERABLE CRUDE OIL AS OF DECEMBER 31, 1966 THOUSANDS OF ST BBL	(7) REMARKS
Princess Basal Mannville A	240	0.100	24	24	-	Abandoned Feb. 1962
Princess Pekisko A	6,180	0.100	618	522	96	
Princess Jefferson A	3,340	0.100	334	334	-	Suspended Jan. 1954
Princess Other	1,230	0.100	123	123	-	Abandoned Feb. 1962
Taber Mannville A	14,900	0.100	1,490	1,219	271	
Taber Mannville B	11,900	0.200	2,380	1,803	577	
SUBTOTAL	58,860		8,459	7,012	1,447	
TOTAL HEAVY CRUDE OIL	1,216,935		148,362	54,734	93,628	
PROVINCIAL TOTAL OF LIGHT & MEDIUM AND HEAVY CRUDE OIL	28,454,012		8,987,324	2,226,592	6,760,732	

(1) See Table 1-2

(2) Enhanced Recovery Schemes are in operation but no additional recoverable reserves are attributed to them as yet

TABLE 1-2

INCREASE IN PROVED INITIAL RECOVERABLE RESERVES OF CRUDE OIL ATTRIBUTED TO ENHANCED RECOVERY
DECEMBER 31, 1966

(1) POOL	(2) NATURAL DEPLETION RECOVERY FACTOR FRACTION	(3) INITIAL RECOVERABLE CRUDE OIL BY NATURAL DEPLETION MILLIONS OF STB	(4) RECOVERY FACTOR INCLUDING EFFECT OF ENHANCED RECOVERY FRACTION	(5) INITIAL RECOVERABLE CRUDE OIL MILLIONS OF STB
Acheson D-3 A	0.54	80.5	0.70	104.0
Bigoray Ostracod	0.12	1.8	0.37	5.7
Carson Creek North Beaverhill Lake A	0.15	9.9	0.44	29.2
Carson Creek North Beaverhill Lake B	0.16	34.4	0.39	84.0
Chauvin Mannville A (1)	0.11	2.2	0.20	3.9
Cyn-Pem Cardium A (1)	0.12	4.5	0.35	13.3
Garrington Cardium A & B (1)	0.08	11.8	0.15	22.2
Gilby Viking A (1)	0.20	7.6	0.45	17.1
Golden Spike D-2 A	0.30	4.1	0.40	5.5
Golden Spike D-3 A	0.70	217.0	0.90	279.0
Joffre Viking	0.17	13.6	0.41	32.8
Judy Creek Beaverhill Lake A	0.16	129.0	0.45	364.0
Judy Creek Beaverhill Lake B	0.20	51.2	0.48	123.0
Judy Creek South Beaverhill Lake	0.15	2.3	0.20	3.0
Kaybob Beaverhill Lake A	0.16	48.0	0.40	120.0
Leduc-Woodbend D-2 A	0.35	71.7	0.45	92.3
Leduc-Woodbend D-3 A	0.55	162.0	0.70	207.0
Medicine River Jurassic A	0.16	5.2	0.35	11.3
Pembina Cardium (1)	0.12	708.0	0.26	1560.0
Snipe Lake Beaverhill Lake	0.12	23.8	0.39	77.0
Stettler D-2 A	0.30	17.4	0.41	24.0
Sundre Rundle A	0.25	20.0	0.40	32.1
Swan Hills Beaverhill Lake A & B (1)	0.17	291.0	0.44	744.0

(1) POOL	(2) NATURAL DEPLETION RECOVERY FACTOR FRACTION	(3) INITIAL RECOVERABLE CRUDE OIL BY NATURAL DEPLETION MILLIONS OF STB	(4) RECOVERY FACTOR INCLUDING EFFECT OF ENHANCED RECOVERY FRACTION	(5) INITIAL RECOVERABLE CRUDE OIL MILLIONS OF STB
Swan Hills Beaverhill Lake C (1)	0.13	51.7	0.35	139.0
Swan Hills South Beaverhill Lake A & B (1)	0.18	155.0	0.45	387.0
Virginia Hills Beaverhill Lake (1)	0.18	76.9	0.40	171.0
Wainwright Wainwright (1)	0.06	7.1	0.20	23.8
Willesden Green Cardium A (1)	0.11	35.3	0.25	80.3
TOTAL		2243.0		4755.5
Increase attributable to enhanced recovery schemes				2512.5

(1) Data refer only to the portion of the pool subject to enhanced recovery schemes from which additional recovery is recognized.

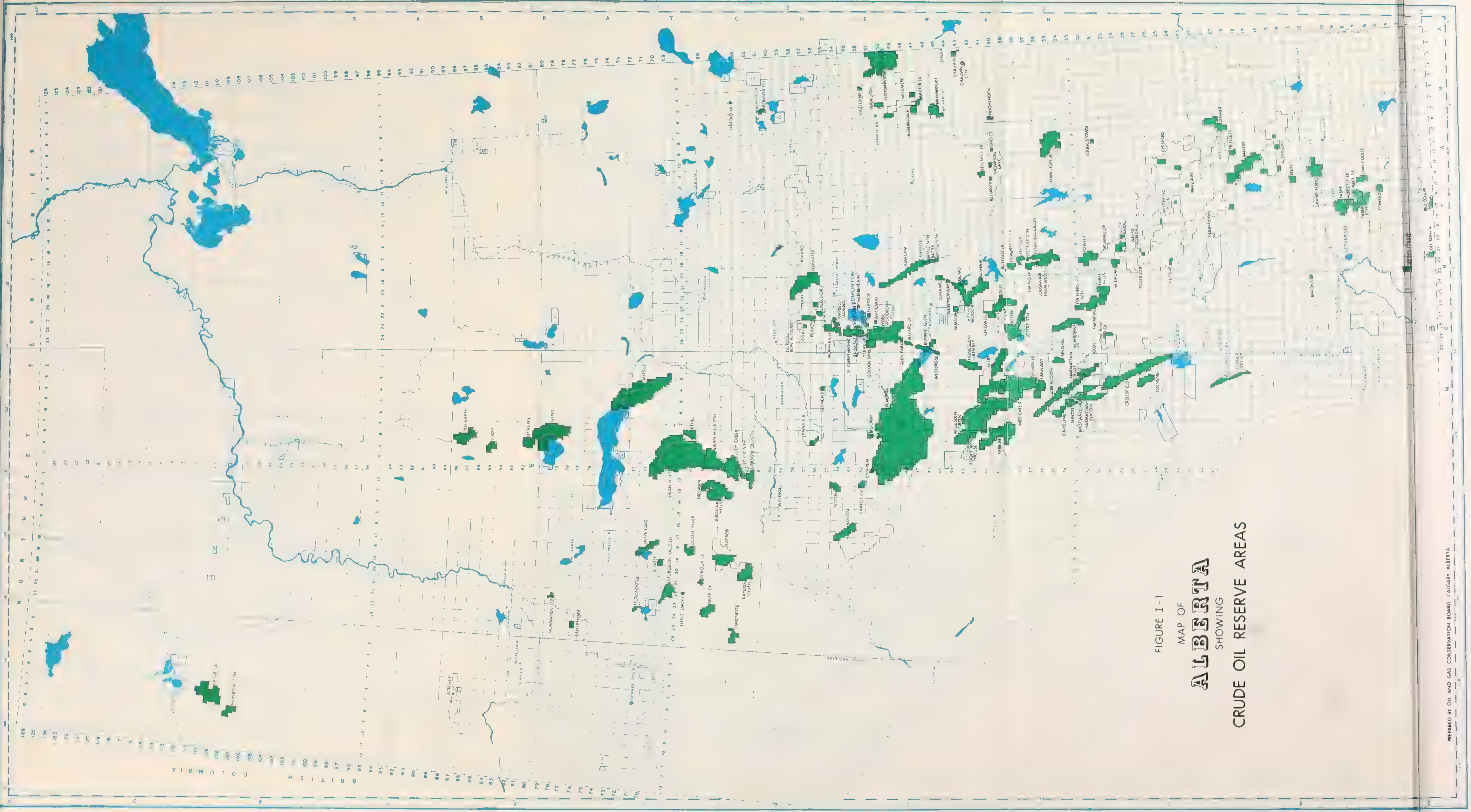

FIGURE I-1

MAP OF

ALBERTA

SHOWING

CRUDE OIL RESERVE AREAS

PREPARED BY OIL AND GAS CONSERVATION BOARD, CALGARY ALBERTA

II THE ESTABLISHED RESERVES OF GAS IN THE PROVINCE OF ALBERTA

The Board estimates the remaining established reserves of marketable gas in Alberta at December 31, 1966, to be some 38.1 trillion cubic feet, or the equivalent of 40.6 trillion cubic feet of 1,000 Btu gas. The present estimate represents an increase on an actual heating value basis of some 0.5 trillion cubic feet since December 31, 1965.

While only the established reserves are referred to in this report, the Board does calculate proved and probable reserves of gas. The definitions and inter-relationships of these categories of reserves are summarized as follows:

Proved Reserves - consist of the gas recoverable from the area of a pool complete delineated by drilled wells. A portion of the reserves may be under undrilled spacing units which are so close and so related to drilling spacing units that there is every reasonable probability they will be produced when the spacing units are drilled or will be recovered from existing wells.

Probable Reserves - consist of the gas estimated to be recoverable from a pool beyond the proved limits of the pool. The probable pool limits are based on normal geological expectation.

Established Reserves - are the reserves of gas whose existence and estimated amount can reasonably be counted upon. They include all of the proved reserves and a judgment portion (usually 50 per cent) of the probable reserves.

In its estimate of reserves, the Board has had regard for the estimates presented by the industry at various hearings and in applications submitted to it during the year. In many cases, these presentations have provided the Board with data previously unavailable which have assisted the Board considerably in making its estimates.

The changes in the reserves during the last year are summarized in the following tabulation.

	Actual Basis	1,000 Btu Basis
	(Trillions of Cubic Feet)	
Remaining Established Reserves of Marketable Gas at December 31, 1965	37.6	40.1
Additions to Reserves during 1966	1.4	1.6
Marketable Gas Produced during 1966	0.9	1.1
Remaining Established Reserves of Marketable Gas at December 31, 1966	38.1	40.6

Of the 1.4 Tcf addition to initial marketable reserves in 1966, some 1.2 Tcf was the net result of re-assessment and development drilling, with the major re-assessments causing a reduction of 0.6 Tcf. The remaining 0.2 Tcf are the reserves attributed to new discoveries made during the year and which will probably increase substantially with further development drilling.

The Board has classified the reserves into solution, associated and non-associated gas reserves. A comparison of the 1965 and 1966 estimates of remaining established marketable gas in these categories on an actual heating value basis is presented in the following tabulation. Due to increased knowledge, some reserves previously classified as non-associated are now considered to be associated and this has led to the decrease in non-associated reserves indicated in the table.

Classification of Reserves	Dec. 31, 1965	Dec. 31, 1966	Change
	(Trillions of Cubic Feet)		
Solution	3.6	3.3	-0.3
Associated	4.3	5.6	+1.3
Non-associated	29.7	29.2	-0.5
Total Reserves	37.6	38.1	+0.5

The more significant changes in the 1966 estimate of initial established marketable gas reserves have occurred in the following areas.

Field or Area Pool or Zone	Board's Estimate as of Dec. 31, 1965	Board's Estimate as of Dec. 31, 1966	Change	Remarks
	(Billions of Cubic Feet)			
Crossfield Wabamun A	680	870	+90	Additional drilling and re-evaluation
Crossfield East Wabamun A	370	610	+240	Additional drilling plus transfers from Olds and Lone Pine Creek areas
Ferrier Cardium E	<10	300	+300	Several new wells drilled and isopached
Gold Creek Wabamun A	450	400	-50	Additional drilling reduced areal extent
Kaybob South Beaverhill Lake	15	110	+95	Additional drilling increased areal extent
Pembina Cardium	1,120	880	-240	Restudy and re-evaluation of data
Pine Creek D-3	330	200	-130	Reduced areal extent and recovery factor
Savanna Creek Rundle A	400	200	-200	Re-evaluation and consequent reduction of pool volume

The five pools with the most substantial changes in initial marketable reserve estimates are discussed further in the following paragraphs.

Crossfield East Wabamun A Pool reserve estimate has increased from 370 Bcf as of December 31, 1965, to 610 Bcf as of December 31, 1966. During the year, two wells were drilled and isopached as part of the Pool along with wells formerly in the Olds and Lone Pine Creek areas and this led to a substantial increase in the proved areal extent of the pool.

Ferrier Cardium E Pool reserve estimate has increased substantially due to the completion of several new wells during 1966. A reserve estimate of insignificant volume on December 31, 1965, amounted to 300 Bcf at the end of 1966.

Pembina Cardium solution gas reserves have been re-evaluated. After considering the data and conclusions submitted by Pan American Petroleum Corporation with the restudy prepared by the Board staff, the initial marketable gas reserves were reduced to 880 Bcf. The greater part of the reduction results from revisions in the interpretation of the initial solution gas-oil ratio and the reservoir loss.

Pine Creek D-3 Pool reserve estimate has been reduced from 330 Bcf for the year ending December 31, 1965, to 200 Bcf at the current year end. The reduction is due primarily to a decrease in areal extent resulting from geological re-evaluation and a decrease in the recovery factor from 50 per cent to 40 per cent as the result of unfavourable production performance.

Savanna Creek Rundle A Pool reserve estimate has been re-evaluated due to the disappointing production history. The reduction in reserves of 200 Bcf from the 400 Bcf assigned for the year ending December 31, 1965, was made through a reduction in the pore volume assigned to the pool.

The Board estimates of established reserves of gas are presented in Table II-1. The reserves are tabulated by fields or areas. Within each field or area, pools having initial marketable reserves of 50 Bcf or greater are shown separately and the reserves of the remaining pools in the field are grouped by zone. However, the table does not show reserves by field or area where the initial marketable reserves total less than 10 Bcf unless the reserve is supplying a market. In addition the table does not show reserves by field, area or zone where the data used in calculating the reserves are confidential. The sum of the reserves for such non-producing fields or areas having an initial marketable reserve of less than 10 Bcf and the sum of the reserves of confidential fields, areas or zones are shown at the end of the table and are included in the provincial total. The fields and areas contained in Table II-1 are shown on the map included in Figure II-1.

TABLE II-1

OIL AND GAS CONSERVATION BOARD

ESTABLISHED RESERVES OF GAS IN THE PROVINCE OF ALBERTA, DECEMBER 31, 1966

(14.65 PSIA AND 60°F.)

(1) FIELD OR AREA	(2) ZONE	(3) INITIAL GAS IN PLACE BCF	(4) LOSSES RESERVOIR/SURFACE PER CENT	(5) INITIAL MARKETABLE GAS BCF	(6) MARKETABLE GAS PRODUCED TO DEC. 31, 1966 BCF	(7) REMAINING MARKETABLE GAS DEC. 31, 1966 BCF	(8) ESTIMATED HEATING VALUE BTU/CU FT	(9) REMAINING MARKETABLE GAS (1000 BTU BASIS) BCF	(10) REMARKS
ACHESON	VIKING	6	25/5	4	2	2	1,020	2	GAS SOLD TO NORTH-WESTERN UTILITIES, LIMITED.
	BLAIRMORE	10	20/10	7	-	7	1,020	7	
	BLAIRMORE ASSOC.	18	15/10	14	4**	11	1,020*	11	
	BLAIRMORE SOLUTION	3	35/55	1					
	LEDUC SOLUTION	76	30/55	24	6	18	1,140*	21	
ACHESON EAST	BLAIRMORE	5	20/5	4	-	4	1,090	4	
	BLAIRMORE ASSOC.	7	10/5	6	-	6	1,090*	7	
ADEN	BOW ISLAND	5	20/5	4	-	4	1,000	4	GAS SOLD TO CANADIAN-MONTANA GAS COMPANY LTD.
	BASAL COLORADO	6	15/5	5	1	4	1,000	4	
	SUNBURST-SWIFT	3	20/5	2	1	1	1,040	1	
	MISSISSIPPIAN	12	10/10	10	6	4	1,040	4	
ALDERSON	MILK RIVER	32	25/5	23	5	18	960	17	SUPPLIES LOCAL UTILITY.
	SECOND WHITE SPECKS A	280	25/5	200	-	200	995	199	
	SECOND WHITE SPECKS (OTHER)	3	20/10	2	-	2	995	2	
	BOW ISLAND	26	20/5	20	-	20	1,000	20	
	BASAL COLORADO	12	15/5	10	-	10	1,030	10	
ALEXANDER	BASAL QUARTZ A	140	15/5	110	102	8	1,060*	8	GAS SOLD TO NORTH CANADIAN OILS LIMITED AND CALGARY POWER LTD.
	BLAIRMORE (OTHER)	4	15/5	3	2	1	1,060*	1	
ALIX	BLAIRMORE	12	10/5	10	-	10	1,090	11	
	NISKU	1	20/10	1	-	1	1,130	1	
	NISKU ASSOC.	7	15/10	5	-	5	1,130*	6	
ANTELOPE	VIKING	20	20/5	15	1	14	1,020	14	GAS SOLD TO TRANS-CANADA PIPE LINES LIMITED.
	BANFF	13	20/5	10	4	6	1,020	6	
ATHABASCA	BLAIRMORE	6	15/5	5	2	3	1,000*	3	SUPPLIES LOCAL UTILITY.
	WABAMUN	4	10/5	3	-	3	980*	3	
ATHABASCA EAST	BLAIRMORE	1	20/5	1	-	1	1,090	1	
	WABAMUN	2	10/5	2	1	1	1,000	1	SUPPLIES LOCAL UTILITY.

(1) FIELD OR AREA	(2) ZONE	(3) INITIAL GAS IN PLACE BcF	(4) LOSSES RESERVOIR/SURFACE PER CENT	(5) INITIAL MARKETABLE GAS BcF	(6) MARKETABLE GAS PRODUCED TO DEC. 31, 1966 BcF	(7) REMAINING MARKETABLE GAS DEC. 31, 1966 BcF	(8) ESTIMATED HEATING VALUE Btu/cu ft	(9) REMAINING MARKETABLE GAS (1000 Btu BASIS) BcF	(10) REMARKS
Atim	Viking	1	20/5	1	-	1	1,000	1	
	Mannville	2	15/5	2	1	1	1,070	1	Gas sold to Canadian Industrial Gas & Oil Ltd.
Atlee-Buffalo	Viking A	73	25/5	52	10	42	970*	41	Gas sold to Trans-Canada Pipe Lines Limited.
	Viking (Other)	48	25/5	34	1	33	970*	32	
	Basal Colorado	7	10/5	6	-	6	1,020	6	
	Mannville	72	20/5	55	-	55	960*	53	
Bantry	Milk River	46	20/5	35	1	34	960	33	Supplies local utility.
	Bow Island	26	20/5	20	-	20	970	19	
	Basal Colorado	3	20/5	2	-	2	970	2	
	Mannville	37	15/5	30	2	28	1,030	29	
	Mannville Assoc.	38	10/10	31	-	31	1,160	36	
Baptiste	Blairmore	1	20/5	1	-	1	970	1	
	Wabamun	14	20/5	11	-	11	980	11	
Bashaw	Viking	1	25/5	1	-	1	970	1	
	Blairmore	13	10/5	11	-	11	970	11	
	Blairmore Assoc.	12	20/5	9	-	9	1,000	9	
	Leduc Assoc.	18	20/15	12	-	12	1,220	15	
Bawlf	Viking	21	25/5	15	-	15	1,020	15	Presently considered beyond economic reach.
	Blairmore	4	20/5	3	-	3	1,050	3	
Beaver Crossing	Colony	2	30/5	1	-	1	1,000	1	Supplies local utility.
Beaverhill Lake-Fort Saskatchewan	Viking (Main)	610	15/5	490	101	389	1,020	397	Gas sold to North-western Utilities, Limited and Canadian Industrial Gas & Oil Ltd.
	Viking (Other)	37	15/5	30	-	30	1,020	31	
	Mannville	4	15/5	3	-	3	1,000	3	
Bellis	Mannville	7	20/5	5	-	5	1,015	5	
	Nisku	45	15/5	36	-	36	1,000	36	
Belloy	Notikewin	9	20/5	7	-	7	1,000	7	
	Gething	63	15/5	50	-	50	980	49	
	Mississippian	23	10/5	20	-	20	1,120	22	
Benjamin Creek	Rundle	100	15/20	70	-	70	1,070	75	
Berland River	Leduc A	440	10/25	300	-	300	1,000	300	
Berland River West	Wabamun	24	10/30	15	-	15	1,020	16	Presently considered beyond economic reach.

(1) FIELD OR AREA	(2) ZONE	(3) INITIAL GAS IN PLACE BCF	(4) LOSSES RESERVOIR/SURFACE PER CENT	(5) INITIAL MARKETABLE GAS BCF	(6) MARKETABLE GAS PRODUCED TO DEC. 31, 1966 BCF	(7) REMAINING MARKETABLE GAS DEC. 31, 1966 BCF	(8) ESTIMATED HEATING VALUE BTU/CU FT	(9) REMAINING MARKETABLE GAS (1000 BTU BASIS) BCF	(10) REMARKS
BIGORAY	PASKAPOO	2	40/5	1	-	1	1,000	1	NOW INCLUDES AREA FORMERLY KNOWN AS BIGORAY SOUTH-EAST.
	BLAIRMORE	16	15/5	13	-	13	1,080	14	
	RUNDLE	19	20/10	14	-	14	1,080	15	
BIGSTONE	GETHING	23	10/5	20	-	20	1,100	22	
	DUNVEGAN	53	10/5	45	-	45	1,140	51	
	WABAMUN	10	15/40	5	-	5	1,050	52	
	D-3 A	390	15/25	250	-	250	990	248	
BINDLOSS	VIKING A	400	15/5	320	86	234	980	229	GAS SOLD TO TRANS-CANADA PIPE LINES LIMITED.
	VIKING (OTHER)	41	15/5	33	2	31	980	30	
	MANNVILLE	31	15/5	25	-	25	990	25	
BITTERN LAKE	VIKING	3	25/5	2	-	2	1,020	2	
	BLAIRMORE	62	15/5	50	-	50	1,070	54	
BLACK BUTTE	SECOND WHITE SPECKS	3	20/5	2	-	2	960	2	
	BOW ISLAND	21	15/5	17	2	15	1,010	15	GAS SOLD TO CANADIAN-MONTANA GAS COMPANY LTD.
	BASAL COLORADO	25	15/5	20	7	13	1,000	13	
	MANNVILLE	6	15/5	5	-	5	1,000	5	
	SUNBURST-ELLIS	37	15/5	30	23	7	1,000	7	
	MISSISSIPPIAN	11	10/5	9	3	6	1,020	6	
BLUERIDGE	DETRITAL	14	10/5	12	-	12	1,100	13	PRESENTLY CONSIDERED BEYOND ECONOMIC REACH.
	MISSISSIPPIAN	1	20/5	1	-	1	1,130	1	
BONNIE GLEN	CARDIUM SOLUTION	2	35/1	1	-	1	1,040*	1	
	VIKING	3	15/1	2	-	2	1,050	2	
	BLAIRMORE	5	15/1	4	3	1	1,100	1	GAS SOLD TO NORTH-WESTERN UTILITIES, LIMITED.
	D-3 A ASSOC.	430	15/15	310	-	310	1,220*	378	
	LEDUC ASSOC. (OTHER)	33	15/15	24	6	18	1,220*	22	
	D-3 A SOLUTION	570	35/25	280	42	238	1,220*	290	
BONNYVILLE	BLAIRMORE	4	20/5	3	2	1	980	1	SUPPLIES LOCAL UTILITY.
	BLAIRMORE ASSOC.	1	20/5	1	-	1	980	1	
BOUNDARY LAKE SOUTH	CADOMIN	11	20/10	8	-	8	1,060	8	
	TRIASSIC	1	15/10	1	-	1	1,050	1	
	MISSISSIPPIAN	58	15/5	47	16	31	1,040*	32	GAS SOLD TO WESTCOAST TRANSMISSION COMPANY LIMITED.
BOW ISLAND	BOW ISLAND	20	20/5	15	-4	19	1,110	21	CANADIAN WESTERN NATURAL GAS COMPANY LIMITED STORAGE RESERVOIR.

(1) Field or Area	(2) Zone	(3) Initial Gas in Place BcF	(4) Losses Reservoir/Surface Per Cent	(5) Initial Marketable Gas BcF	(6) Marketable Gas Produced to Dec. 31, 1966 BcF	(7) Remaining Marketable Gas Dec. 31, 1966 BcF	(8) Estimated Heating Value Btu/cu ft	(9) Remaining Marketable Gas (1000 Btu Basis) BcF	(10) Remarks
Boyle	Blairmore	3	20/5	2	-	2	1,000	2	
	Detrital	1	15/5	1	-	1	1,000	1	
	Nisku	10	15/5	8	-	8	990	8	
Braeburn	Cadomin	4	20/5	3	-	3	1,060*	3	Gas sold to Westcoast Transmission Company Limited.
	Triassic	27	15/10	21	3	18	1,090*	20	
	Permo-Penn	52	15/10	40	2	38	1,030*	39	
Brazeau River	Elkton A	180	15/10	140	-	140	1,040*	146	
	Elkton (Other)	210	15/10	160	-	160	1,040*	166	
	Shunda	22	20/15	15	-	15	1,080*	16	
Brooks	Milk River	9	20/5	7	4	3	990	3	Supplies local utility.
Brown Creek	Rundle	59	20/15	40	-	40	970	39	Presently considered beyond economic reach.
Bruce	Viking	27	25/5	19	-	19	1,000	19	
	Blairmore	7	20/5	5	-	5	1,020	5	
Burnt Timber	Rundle A	370	15/20	250	-	250	1,080	270	
Calais	Gething	14	15/5	11	-	11	1,000	11	Supplies local utility.
	Cadomin	12	15/5	10	-	10	1,000	10	
	Leduc	1	10/25	1	-	1	1,080	1	
Calling Lake	Mannville	3	25/5	2	-	2	1,000	2	
	Nisku	49	25/5	35	-	35	1,000	35	
Campbell-Namao	Blairmore	4	15/5	3	-	3	1,020	3	Gas sold to Canadian Industrial Gas & Oil Ltd.
	Blairmore Assoc.	26	15/5	21	15**	10	1,020*	10	
	Blairmore Solution	8	40/15	4					
Carbon	Belly River	1	20/5	1	-	1	990	1	
	Viking	5	20/5	4	-	4	1,020	4	
	Basal Colorado	4	15/5	3	-	3	1,020	3	
	Glauconitic	160	15/5	130	13	117	1,100	129	Gas sold to Canadian Western Natural Gas ~~Company~~ Limited.
	Mississippian	4	15/5	3	-	3	1,110	3	
Caroline	Viking A Assoc.	130	15/10	96	-	96	1,130	108	
	Viking (Other)	1	15/10	1	-	1	1,130	1	
	Blairmore	39	15/10	30	-	30	1,070	32	
	Mississippian	26	15/10	20	-	20	1,020*	20	
Carson Creek	Mississippian	5	15/5	4	-	4	1,030	4	
	Beaverhill Lake A	210	15/15	150	4	146	1,050*	153	Reservoir being cycled.
	Beaverhill Lake B	110	15/15	80	-10	90	1,050*	95	

(1) FIELD OR AREA	(2) ZONE	(3) INITIAL GAS IN PLACE BCF	(4) LOSSES RESERVOIR/SURFACE PER CENT	(5) INITIAL MARKETABLE GAS BCF	(6) MARKETABLE GAS PRODUCED TO DEC. 31, 1966 BCF	(7) REMAINING MARKETABLE GAS DEC. 31, 1966 BCF	(8) ESTIMATED HEATING VALUE BTU/CU FT	(9) REMAINING MARKETABLE GAS (1000 BTU BASIS) BCF	(10) REMARKS
Carson Creek North	Beaverhill Lake Assoc.	28	15/15	20	-	20	1,100	22	
	Beaverhill Lake B Solution	330	60/20	106	4	102	1,100	112	Gas injected into Carson Creek.
	Beaverhill Lake Solution (Other)	110	55/20	38	2	36	1,100	40	
Carstairs	Blairmore	14	15/10	11	-	11	1,100	12	
	Elkton A	1,100	15/10	860	186	674	1,140	769	Gas sold to Trans-Canada Pipe Lines Limited.
	Elkton Assoc.	5	15/10	4	-	4	1,140	5	
Castor	Viking	7	20/5	5	-	5	1,040	5	
	Mannville	4	15/5	3	-	3	1,090	3	Supplies local utility.
Cessford	Viking	110	20/5	83	8	75	1,020*	77	Gas sold to Trans-Canada Pipe Lines Limited.
	Basal Colorado A	1,000	15/5	820	258	562	1,020	573	
	Basal Colorado E	170	15/5	140	30	110	1,060	117	
	Basal Colorado (Other)	48	15/5	39	4	35	1,020	36	
	Mannville A	97	15/5	78	11	67	1,030*	69	
	Mannville H	68	15/5	55	17	38	1,030*	39	
	Mannville (Other)	260	15/5	210	45	165	1,030*	170	
	Mannville Assoc.	25	20/5	19	-	19	1,030*	20	
Charlotte Lake	Blairmore	1	25/5	1	-	1	1,000	1	Supplies RCAF Station at Cold Lake.
Chigwell	Blairmore	51	10/10	41	10	31	1,100	34	Gas sold to Trans-Canada Pipe Lines Limited.
	Blairmore Assoc.	23	10/10	19	-	19	1,100*	21	
Chinook Ridge	Paddy	13	20/10	9	-	9	1,020	9	Presently considered beyond economic reach.
	Cadotte	32	20/10	23	-	23	1,020	23	
	Notikewin	21	20/10	15	-	15	1,020	15	
Chisholm	Blairmore	12	10/5	10	-	10	1,020	10	Presently considered beyond economic reach.
Clear Hills	Gething	2	15/5	2	-	2	980	2	Presently considered beyond economic reach.
	Triassic	8	10/5	7	-	7	1,030	7	
	Leduc	4	15/5	3	-	3	1,070	3	
Clive	Viking	4	20/5	3	-	3	990	3	
	Mannville	6	15/5	5	-	5	1,020	5	
	Nisku Assoc.	33	10/15	25	-	25	1,150	29	
	Leduc Assoc.	25	10/25	17	-	17	1,200	20	
Cold Lake	Blairmore	8	30/5	5	3	2	1,000	2	Supplies local utility.

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COMREY	SECOND WHITE SPECKS	5	20/5	4	-	4	940	4	
	BOW ISLAND	29	10/5	25	15	10	940	9	GAS SOLD TO CANADIAN-MONTANA GAS COMPANY LTD.
	SAWTOOTH	1	20/5	1	-	1	1,000	1	
CONNORSVILLE	VIKING	8	20/5	6	1	5	990	5	GAS SOLD TO TRANS-CANADA PIPE LINES LIMITED.
	BLAIRMORE	67	15/5	54	2	52	1,130	59	
COUNTESS	BOW ISLAND	92	20/5	70	5	65	1,000*	65	GAS SOLD TO TRANS CANADA PIPE LINES LIMITED. INCUDES AREA FORMERLY KNOWN AS GRANTA.
	BASAL COLORADO	140	25/5	100	58	42	1,000*	42	
	BLAIRMORE	51	15/5	41	4	37	1,020*	38	
	MISSISSIPPIAN	2	15/5	2	-	2	960	2	
	MISSISSIPPIAN ASSOC.	3	20/10	2	-	2	960	2	
CRAIGEND	BLAIRMORE	35	25/5	25	-	25	1,000	25	
	GROSMONT A	240	25/5	170	-	170	1,000	170	
CRAIG LAKE	VIKING	1	20/5	1	-	1	1,000	1	SUPPLIES LOCAL UTILITY.
CROSSFIELD	CARDIUM SOLUTION	73	70/45	12	1	11	1,180	13	GAS SOLD TO TRANS-CANADA PIPE LINES LIMITED.
	BASAL QUARTZ A	81	15/10	62	-	62	1,100	68	
	BASAL QUARTZ (OTHER)	33	15/10	25	-	25	1,100	28	
	RUNDLE A	1,240	10/10	1,000	104	896	1,120*	1,000	GAS SOLD TO ALBERTA AND SOUTHERN GAS CO. LTD. AND WESTCOAST TRANSMISSION COMPANY LIMITED.
	RUNDLE B	930	15/15	670	141	529	1,120*	592	
	RUNDLE (OTHER)	13	15/10	10	-	10	1,120*	11	
	WABAMUN A	2,050	15/50	870	49	821	1,120*	920	
CROSSFIELD EAST	BLAIRMORE	1	15/10	1	-	1	1,000	1	
	ELKTON A	130	10/15	100	17	83	1,120	93	GAS SOLD TO TRANS-CANADA PIPE LINES LIMITED.
	WABAMUN A	1,600	15/55	610	-	610	1,060	646	
DONALDA	VIKING	40	20/5	30	-	30	970	29	PRESENTLY CONSIDERED BEYOND ECONOMIC REACH.
	BLAIRMORE	5	15/5	4	-	4	970	4	
	DETRITAL	5	15/5	4	-	4	990	4	
DOWLING LAKE	MANNVILLE	5	20/5	4	1	3	1,030*	3	SUPPLIES LOCAL UTILITY.
DRUMHELLER	VIKING	4	25/5	3	-	3	1,080	3	
	BLAIRMORE	45	15/5	36	-	36	1,080	39	
	BLAIRMORE ASSOC.	6	15/5	5	-	5	1,080	5	
	MISSISSIPPIAN	3	20/10	2	-	2	1,080	2	

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DUHAMEL	VIKING	5	10/5	4	-	4	1,000	4	PRESENTLY CONSIDERED BEYOND ECONOMIC REACH.
	BLAIRMORE	4	15/5	3	-	3	1,030	3	
	NISKU ASSOC.	2	10/10	2	-	2	1,100	2	
	LEDUC SOLUTION	4	50/55	1	-	1	1,100	1	
DUNVEGAN	CADOTTE	10	25/5	7	-	7	1,010	7	
	DEBOLT	4	10/5	3	-	3	1,040	3	
DUVERNAY	VIKING	4	20/5	3	2	1	1,000*	1	GAS SOLD TO WESTERN MINERALS LTD. PLANT AND SUPPLIES LOCAL UTILITY.
DYBERG	BELLY RIVER	3	20/5	2	-	2	950	2	PRESENTLY CONSIDERED BEYOND ECONOMIC REACH.
	VIKING	8	10/5	7	-	7	1,000	7	
	BLAIRMORE ASSOC.	12	10/5	10	-	10	1,020	10	
EAGLESHAM	GETHING ASSOC.	6	15/5	5	-	5	1,000	5	
	CADOMIN ASSOC.	6	15/5	5	-	5	1,060	5	
	MISSISSIPPIAN	62	15/5	50	-	50	1,110	56	
EDSON	GETHING A	92	15/10	70	-	70	1,050	74	
	ELKTON A	2,200	15/10	1,680	43	1,637	1,030	1,690	GAS SOLD TO TRANS-CANADA PIPE LINES LIMITED.
	ELKTON (OTHER)	28	15/10	22	-	22	1,030	23	
	SHUNDA	6	25/10	4	-	4	1,030	4	
EDWAND	MANNVILLE	4	20/5	3	-	3	1,000	3	SUPPLIES LOCAL UTILITY.
ELK POINT	BLAIRMORE	3	20/5	2	1	1	990*	1	SUPPLIES LOCAL UTILITY.
ELLERSLIE	BLAIRMORE ASSOC.	2	25/15	1	-	1	1,000	1	GAS SOLD TO EDMONTON LIQUID GAS LTD.
ENCHANT	MILK RIVER	4	25/5	3	-	3	1,030	3	GAS SOLD TO TRANS-CANADA PIPE LINES LIMITED.
	BOW ISLAND	29	20/5	22	2	20	960*	19	
	BASAL COLORADO	1	25/5	1	-	1	1,000	1	
	MANNVILLE	15	20/10	11	2	9	1,040*	9	
	JURASSIC	2	25/10	2	-	2	1,030	2	
	MISSISSIPPIAN	5	15/10	4	1	3	1,040*	3	
EQUITY	MANNVILLE	4	20/5	3	-	3	1,000	3	
	MISSISSIPPIAN	26	25/10	20	-	20	1,100	22	
ERSKINE	VIKING	4	20/5	3	-	3	1,040	3	
	BLAIRMORE	20	20/10	14	2	12	1,090	13	GAS SOLD TO TRANS-CANADA PIPE LINES LIMITED.
	LEDUC ASSOC.	29	10/20	21	-	21	1,070	22	
	LEDUC SOLUTION	16	50/75	2	-	2	1,110	2	
ESTHER	VIKING	21	25/5	15	-	15	990	15	
	BANFF	21	15/5	17	-	17	1,000	17	

(1) Field or Area	(2) Zone	(3) Initial Gas in Place BcF	(4) Losses Reservoir/Surface Per Cent	(5) Initial Marketable Gas BcF	(6) Marketable Gas Produced to Dec. 31, 1966 BcF	(7) Remaining Marketable Gas Dec. 31, 1966 BcF	(8) Estimated Heating Value Btu/cu ft	(9) Remaining Marketable Gas (1000 Btu Basis) BcF	(10) Remarks
Etzikom	Bow Island A	79	20/5	60	31	29	930	27	Gas sold to South Alberta Pipe Lines Ltd.
	Mannville	2	25/5	1	-	1	1,010	1	
Excelsior	Viking	9	20/5	7	3	4	1,000	4	Gas sold to Canadian Industrial Gas Limited and Plains-Western Gas & Electric Co. Ltd.
	Mannville Assoc.	39	10/5	33	-	33	970	32	
Eyermore	Bow Island	15	30/5	10	-	10	960	10	Presently considered beyond economic reach.
Fairydell-Bon Accord	Viking A	100	20/5	78	20	58	1,020*	59	Gas sold to North-western Utilities, Limited.
	Viking (Other)	9	20/5	7	-	7	1,020*	7	
	Blairmore	16	20/5	12	2	10	990*	10	
	Blairmore Assoc.	7	15/10	5	-	5	990*	5	
Faust South	Gething	12	10/5	10	-	10	990	10	Presently considered beyond economic reach.
Fenn-Big Valley	Viking	22	20/90	2	1	1	1,000*	1	Gas sold to North-western Utilities, Limited.
	Nisku Solution	150	35/85	15	5	10	1,110*	11	
	Leduc Solution	14	40/85	1	-	1	1,110*	1	
Ferrier	Cardium	8	15/10	6	-	6	1,000	6	
	Cardium E Assoc.	390	15/10	300	-	300	1,000	300	
	Viking Solution	31	35/25	15	-	15	1,100	17	
	Jurassic	4	25/5	3	-	3	1,080	3	
	Mississippian	3	20/10	2	-	2	1,100	2	
Figure Lake	Viking	4	25/5	3	-	3	960	3	
	Blairmore	13	20/5	10	-	10	1,000	10	
	Nisku	25	15/5	20	-	20	1,000	20	
Flatbush	Blairmore	26	20/5	20	-	20	1,000	20	Presently considered beyond economic reach.
Foremost	Bow Island	31	15/5	25	6	19	950	18	Gas sold to Canadian Western Natural Gas Company Limited.
Fort Kent	Blairmore	6	25/5	4	1	3	980	3	Supplies local utility.
Fox Creek	Viking	97	25/5	69	-	69	1,160	80	
	Cadomin	36	20/5	27	-	27	1,160	31	
	Triassic	5	15/10	4	-	4	1,160	5	

(1) Field or Area	(2) Zone	(3) Initial Gas in Place Bcf	(4) Losses Reservoir/Surface Per Cent	(5) Initial Marketable Gas Bcf	(6) Marketable Gas Produced to Dec. 31, 1966 Bcf	(7) Remaining Marketable Gas Dec. 31, 1966 Bcf	(8) Estimated Heating Value Btu/cu ft	(9) Remaining Marketable Gas (1000 Btu Basis) Bcf	(10) Remarks
Garrington	Viking	4	15/5	3	-	3	1,130	3	
	Blairmore	12	15/10	9	-	9	1,010	9	
	Mississippian	1	15/10	1	-	1	1,020	1	
	Leduc	29	15/20	20	-	20	1,020	20	
	Leduc Assoc.	15	15/20	10	-	10	1,020	10	
Ghost Pine	Viking	11	25/5	8	-	8	1,020	8	
	Mannville	110	20/10	80	-	80	1,030	82	
	Mannville Assoc.	28	20/10	20	-	20	1,050	21	
	Rundle	50	15/10	38	-	38	1,070	41	
Gilby	Cardium	3	15/10	2	-	2	1,000	2	
	Viking	3	20/5	2	-	2	1,220	2	
	Viking Assoc.	1	25/5	1	-	1	1,220	1	
	Blairmore	130	20/15	93	3	90	1,090*	98	
	Blairmore Assoc.	4	20/10	3	-	3	1,090*	3	
	Basal Mannville A-Jurassic D	220	15/10	170	9	161	1,090*	175	Gas sold to Trans-Canada Pipe Lines Limited.
	Jurassic A	88	20/10	63	2	61	1,090*	67	
	Jurassic (Other)	19	15/15	14	-	14	1,090*	15	
	Jurassic E Assoc.	86	20/10	62	2	60	1,090*	65	
	Jurassic Assoc. (Other)	12	10/15	9	7	2	1,090*	2	
	Rundle C	220	10/15	170	48	122	1,090*	134	
	Rundle D	170	15/15	120	23	97	1,090*	106	
	Rundle (Other)	41	15/10	31	7	24	1,090*	26	
	Rundle Assoc.	2	20/15	1	-	1	1,100	1	
	Wabamun	7	10/20	5	-	5	1,170	6	
Glenevis	Blairmore	17	20/10	12	-	12	1,040	12	Presently considered beyond economic reach.
Glen Park	Blairmore	5	20/5	4	1	3	1,140	3	Gas sold to Northwestern Utilities, Limited.
	Leduc Solution	16	35/15	9	1	8	1,250	10	
Gold Creek	Cadomin	10	15/15	7	-	7	1,050	7	
	Wabamun A	710	20/30	400	-	400	1,050	420	
Golden Spike	Viking	8	20/5	6	1	5	1,050	5	Gas injected into Leduc zone.
	Blairmore	24	15/5	19	1	18	1,050	19	
	Wabamun	25	10/10	20	11	9	1,060	10	
	Nisku	4	15/15	3	-	3	1,220	3	
	Nisku Solution	6	35/20	3	1	2	1,220	2	
	D-3 A Solution	130	10/35	75	-24	99	1,290	128	
Goodwin Lake	Blairmore	1	25/10	1	-	1	1,050	1	Presently considered beyond economic reach.
	Jurassic	20	15/10	15	-	15	1,070	16	

(1) Field or Area	(2) Zone	(3) Initial Gas in Place Bcf	(4) Losses Reservoir/Surface Per Cent	(5) Initial Marketable Gas Bcf	(6) Marketable Gas Produced to Dec.31, 1966 Bcf	(7) Remaining Marketable Gas Dec.31, 1966 Bcf	(8) Esimtated Heating Value Btu/cu ft	(9) Remaining Marketable Gas (1000 Btu Basis) Bcf	(10) Remarks
Gordondale	Peace River	35	15/5	28	23	5	1,000	5	Gas sold to Westcoast Transmission Company Limited.
	Gething	53	15/5	43	29	14	1,020	14	
Greencourt	Jurassic-Detrital	65	15/10	50	-	50	1,070	54	Presently considered beyond economic reach.
	Pekisko Assoc.	37	25/10	25	-	25	1,130	28	
Hackett	Blairmore	62	10/10	50	4	46	1,100	51	Gas sold to Trans-Canada Pipe Lines Limited.
Hairy Hill	Viking	1	25/5	1	-	1	980	1	
	Blairmore	23	10/5	20	9	11	1,000*	11	Gas sold to Western Minerals Limited.
	Nisku	3	20/5	2	-	2	1,000	2	
Halliday	Viking	5	20/5	4	-	4	1,040	4	Gas sold to Trans-Canada Pipe Lines Limited.
Hamelin Creek	Cadotte	3	20/5	2	-	2	1,000	2	
	Gething	4	15/5	3	-	3	1,010	3	
	Cadomin	21	15/5	17	5	12	1,060	13	Supplies local utility.
	Triassic	1	25/5	1	-	1	1,160	1	
Hamilton Lake	Viking	10	25/5	7	-	7	1,040	7	Includes areas formerly known as Hamilton Lake North and Coronation.
	Viking Assoc.	7	25/5	5	-	5	1,040	5	
	Blairmore	7	15/5	6	-	6	1,050	6	
Hanna	Viking	10	15/5	8	-	8	1,040	8	
	Blairmore	3	15/5	2	-	2	1,050	2	
	Mississippian	1	20/5	1	-	1	1,080	1	
Harmattan East	Rundle Assoc.	1,180	10/15	900	-9	909	1,080	986	Reservoir being cycled. Gas injected into gas cap.
	Rundle Solution	170	45/25	71	9	62	1,280	79	
Harmattan-Elkton	Blairmore	2	10/5	2	-	2	1,020	2	
	Rundle	55	15/15	40	2	38	1,040	40	Gas sold to Trans-Canada Pipe Lines Limited.
	Rundle C Assoc.	1,150	10/15	880	-25	905	1,080	977	Reservoir being cycled. Gas injected into gas cap.
	Rundle Assoc. (Other)	28	15/15	20	5	15	1,080	16	
	Rundle C Solution	180	35/30	83	20	63	1,280	81	
	D-3 A	530	20/60	170	-	170	1,100	187	Gas sold to Alberta and Southern Gas Co. Ltd.

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
FIELD OR AREA	ZONE	INITIAL GAS IN PLACE BCF	LOSSES RESERVOIR/SURFACE PER CENT	INITIAL MARKETABLE GAS BCF	MARKETABLE GAS PRODUCED TO DEC. 31, 1966 BCF	REMAINING MARKETABLE GAS DEC. 31, 1966 BCF	ESTIMATED HEATING VALUE BTU/CU FT	REMAINING MARKETABLE GAS (1000 BTU BASIS) BCF	REMARKS
Heart River	Cadotte	2	15/5	2	1	1	1,000	1	Supplies local utility.
	Notikewin	2	10/5	2	-	2	1,000	2	
Hercules	Viking	21	15/5	17	-	17	1,050	18	
	Blairmore	38	20/5	29	-	29	960	28	
High Prairie	Cadotte	4	15/5	3	-	3	1,000	3	
	Notikewin	8	15/5	6	-	6	1,100	7	
	Gething	1	15/5	1	-	1	1,000	1	
Holburn	Cardium	8	20/5	6	2	4	980	4	Gas injected into Golden Spike.
	Blairmore	24	15/10	18	-	18	1,120	20	
Holmberg	Blairmore	26	15/5	21	-	21	1,050	22	Gas sold to Baroid of Canada, Ltd. plant.
Homeglen-Rimbey	D-3 Assoc.	1,120	20/15	760	182**	615	1,070*	658	Gas sold to Trans-Canada Pipe Lines Limited and Alberta and Southern Gas Co. Ltd.
	D-3 Solution	87	50/15	37					
Hunter Valley	Mississippian	78	15/25	50	-	50	1,080	54	
Hussar	Belly River	3	25/5	2	1	1	1,000	1	Gas sold to Trans-Canada Pipe Lines Limited.
	Viking	40	20/5	30	8	22	1,020*	22	
	Viking Assoc.	31	25/5	22	-	22	1,020*	22	
	Basal Colorado	56	25/5	40	12	28	1,020*	29	
	Glauconitic A	340	20/5	260	81	179	1,050	188	
	Blairmore (Other)	220	15/5	180	3	177	1,050	186	
	Blairmore Assoc.	110	20/5	84	7**	88	1,050	92	
	Blairmore Solution	20	35/15	11					
Inland	Viking	21	25/5	15	-	15	980	15	
Innisfail	Blairmore	1	20/15	1	-	1	1,050	1	
	Mississippian	22	10/10	18	-	18	1,080	20	
	Wabamun	3	15/15	2	-	2	1,170	2	
	Leduc Assoc.	17	10/35	10	-	10	1,020	10	
	D-3 Solution	200	45/45	60	15	45	1,130*	51	Gas sold to Trans-Canada Pipe Lines Limited.
Jarrow	Viking	4	25/5	3	-	3	1,010	3	
	Blairmore	17	20/5	13	-	13	1,030	13	
Jarvie	Viking	10	25/5	7	-	7	1,040	7	Presently considered beyond economic reach.
	Blairmore	10	15/5	8	-	8	1,100	9	

(1) FIELD OR AREA	(2) ZONE	(3) INITIAL GAS IN PLACE BCF	(4) LOSSES RESERVOIR/SURFACE PER CENT	(5) INITIAL MARKETABLE GAS BCF	(6) MARKETABLE GAS PRODUCED TO DEC.31, 1966 BCF	(7) REMAINING MARKETABLE GAS DEC.31, 1966 BCF	(8) ESTIMATED HEATING VALUE BTU/CU FT	(9) REMAINING MARKETABLE GAS (1000 BTU BASIS) BCF	(10) REMARKS
Jenner	Bow Island	4	25/5	3	-	3	990	3	
	Basal Colorado	7	20/5	5	-	5	1,040	5	
	Mannville	20	20/5	15	-	15	1,050	16	
	Mannville Assoc.	9	20/5	7	-	7	1,050	7	
	Pekisko Assoc.	3	15/5	2	-	2	1,000	2	
Joarcam	Viking	3	25/5	2	-	2	1,040	2	
	Viking Assoc.	70	25/5	50	-	50	1,040	52	
Joffre	Viking	1	25/5	1	-	1	1,000	1	
	Blairmore	44	20/10	32	-	32	1,020	33	
	Leduc Assoc.	4	15/10	3	-	3	1,050	3	
Judy Creek	Viking	33	20/5	25	-	25	1,020	26	
	Beaverhill Lake A Solution	540	55/30	170	9	161	1,080	174	Gas sold to North-western Utilities, Limited.
	Beaverhill Lake B Solution	270	50/30	93	5	88	1,080	95	
Judy Creek South	Mississippian	12	10/10	10	-	10	1,050	11	Presently considered beyond economic reach.
Jumping Pound	Mississippian	780	15/15	560	234	326	1,050	343	Gas sold to Canadian Western Natural Gas Company Limited.
Jumping Pound West	Rundle A	880	20/20	560	-	560	1,050	588	
	Rundle B	210	20/15	140	-	140	1,050	147	
Kaybob	Notikewin A	200	15/5	160	7	153	1,100*	168	Gas sold to Alberta and Southern Gas Co. Ltd.
	Notikewin B	120	15/5	98	38	60	1,100*	66	
	Notikewin (Other)	24	15/5	19	-	19	1,100*	21	
	Spirit River	9	15/5	7	-	7	1,000	7	
	Gething	16	15/5	13	-	13	1,050	14	
	Cadomin	47	15/5	38	-	38	1,040	40	
	Cadomin B Assoc.	77	15/5	62	-	62	1,040	65	
	Wabamun	1	20/10	1	-	1	1,070	1	
	Winterburn	5	15/35	3	-	3	1,070	3	
	Beaverhill Lake	1	20/15	1	-	1	1,070	1	
	Beaverhill Lake Assoc.	6	20/15	4	-	4	1,140	5	
	Beaverhill Lake A Solution	330	60/25	100	7	93	1,140	106	
Kaybob South	Viking	22	25/5	16	-	16	1,100	18	
	Cadomin	83	20/5	60	-	60	1,040	62	
	Triassic	3	20/5	2	-	2	1,160	2	
	Triassic Assoc.	3	20/5	2	-	2	1,160	2	

(1) FIELD OR AREA	(2) ZONE	(3) INITIAL GAS IN PLACE BCF	(4) LOSSES RESERVOIR/SURFACE PER CENT	(5) INITIAL MARKETABLE GAS BCF	(6) MARKETABLE GAS PRODUCED TO DEC. 31, 1966 BCF.	(7) REMAINING MARKETABLE GAS DEC. 31, 1966 BCF	(8) ESTIMATED HEATING VALUE BTU/CU FT	(9) REMAINING MARKETABLE GAS (1000 BTU BASIS) BCF	(10) REMARKS
KAYBOB SOUTH (CONT'D)	TRIASSIC A SOLUTION	99	30/25	52	-	52	1,160	60	
	NISKU	21	10/20	15	-	15	1,240	19	
	BEAVERHILL LAKE A	200	15/35	110	-	110	1,210	133	
KESSLER	VIKING A	81	25/5	58	7	51	1,020*	52	GAS SOLD TO TRANS-CANADA PIPE LINES LIMITED.
	VIKING (OTHER)	10	25/5	7	-	7	1,020*	7	
	BLAIRMORE	5	10/5	4	-	4	990	4	
KILLAM	VIKING	3	25/5	2	-	2	1,040	2	PRESENTLY CONSIDERED BEYOND ECONOMIC REACH.
	VIKING ASSOC.	1	25/5	1	-	1	1,040	1	
	BLAIRMORE	9	15/5	7	-	7	1,000	7	
KILLAM NORTH	BLAIRMORE	20	20/5	15	-	15	1,000	15	SUPPLIES LOCAL UTILITY.
	BLAIRMORE ASSOC.	5	20/5	4	-	4	1,000	4	
KNAPPEN	SUNBURST-ELLIS	18	20/10	13	-	13	1,000	13	GAS SOLD TO CANADIAN-MONTANA GAS COMPANY LTD.
	MISSISSIPPIAN	7	10/10	6	-	6	1,000	6	
KNELLER	BLAIRMORE	15	10/5	13	-	13	1,100	14	PRESENTLY CONSIDERED BEYOND ECONOMIC REACH.
KNOPCIK	DOE CREEK	17	25/5	12	-	12	1,000	12	GAS SOLD TO NORTHLAND UTILITIES LIMITED.
	PADDY	1	20/5	1	-	1	1,020	1	
LAC LA BICHE	BLAIRMORE	7	20/5	5	1	4	1,010	4	SUPPLIES LOCAL UTILITY.
LAMBERT CREEK	WABAMUN	15	25/10	10	-	10	1,050	11	PRESENTLY CONSIDERED BEYOND ECONOMIC REACH.
LEAHURST	BLAIRMORE	37	15/5	30	2	28	1,160*	32	SUPPLIES LOCAL UTILITY.
LEDUC-WOODBEND	CARDIUM	12	20/5	9	3	6	1,040	6	INJECTED INTO NISKU AND LEDUC GAS CAPS.
	VIKING	20	20/5	15	3	12	1,070	13	
	BLAIRMORE	21	15/5	17	14	3	1,180	4	
	BLAIRMORE ASSOC.	57	15/5	46	6	40	1,180	47	
	WABAMUN ASSOC.	3	15/10	2	1	1	1,050	1	
	NISKU ASSOC.	37	10/15	28	-10	38	1,180	45	
	D-2 A SOLUTION	130	25/30	70	58	12	1,180	14	GAS SOLD TO NORTH-WESTERN UTILITIES, LIMITED.
	NISKU SOLUTION (OTHER)	42	25/30	22	15	7	1,180	8	
	D-3 A ASSOC.	420	15/15	300	-22	322	1,180	380	
	LEDUC ASSOC. (OTHER)	6	15/15	4	1	3	1,180	4	
	D-3 A SOLUTION	140	30/30	70	65	5	1,180	6	
	LEDUC SOLUTION (OTHER)	8	30/30	4	3	1	1,180	1	

(1) FIELD OR AREA	(2) ZONE	(3) INITIAL GAS IN PLACE BCF	(4) LOSSES RESERVOIR/SURFACE PER CENT	(5) INITIAL MARKETABLE GAS BCF	(6) MARKETABLE GAS PRODUCED TO DEC. 31, 1966 BCF	(7) REMAINING MARKETABLE GAS DEC. 31, 1966 BCF	(8) ESTIMATED HEATING VALUE BTU/CU FT	(9) REMAINING MARKETABLE GAS (1000 BTU BASIS) BCF	(10) REMARKS
Legal	Blairmore	6	25/5	4	2	2	1,030	2	Gas sold to Canadian Industrial Gas Limited.
Lindbergh	Viking	3	35/5	2	-	2	990*	2	
	Blairmore	20	20/5	15	6	9	1,000*	9	Supplies salt plant.
Little Bow	Mannville	19	15/5	16	-	16	1,000	16	
Lloydminster	Blairmore	24	15/30	14	11	3	950	3	Supplies local utility.
Lone Pine Creek	Blairmore	5	15/10	4	-	4	1,020	4	
	Wabamun A	250	15/20	170	-	170	1,030	175	
	Leduc Assoc.	63	15/25	40	-	40	1,060	42	
Long Coulee	Mannville	18	20/5	14	-	14	1,000	14	
Lookout Butte	Rundle A	550	15/15	400	-	400	1,040	416	Reservoir being cycled.
Lovett River	Blairmore	12	10/5	10	-	10	1,040	10	
	Rundle A	97	20/10	70	-	70	1,040	73	
Majeau Lake	Blairmore	3	20/5	2	-	2	1,000	2	Presently considered beyond economic reach.
	Mississippian	12	10/10	10	-	10	1,070	11	
Malmo	Viking	7	15/5	6	-	6	1,000	6	
	Blairmore	8	15/10	6	-	6	1,030	6	
	Blairmore Assoc.	2	30/15	1	-	1	1,030	1	
	Nisku Assoc.	3	20/20	2	-	2	1,100	2	
	Leduc	53	15/20	36	-	36	1,100	40	
	Leduc Assoc.	1	10/10	1	-	1	1,100	1	
Manyberries	Bow Island	34	20/5	26	21	5	940	5	Gas sold to Canadian-Montana Gas Company Ltd.
Marlboro	Leduc	63	15/25	40	-	40	1,030	41	
Marsh Head Creek	Leduc	27	15/35	15	-	15	1,050	16	Presently considered beyond economic reach.
Marten Hills	Pelican	2	35/5	1	-	1	990	1	
	Grand Rapids	8	30/5	5	-	5	990	5	
	Wabiskaw A	630	25/5	450	-	450	990	445	
	Wabiskaw (Other)	3	30/5	2	-	2	990	2	
	Wabamun A	340	25/5	240	-	240	1,000	240	
Matziwin	Viking	11	15/5	9	-	9	1,000	9	
	Blairmore	1	25/5	1	-	1	1,010	1	

(1) Field or Area	(2) Zone	(3) Initial Gas in Place Bcf	(4) Losses Reservoir/Surface Per Cent	(5) Initial Marketable Gas Bcf	(6) Marketable Gas Produced to Dec.31, 1966 Bcf	(7) Remaining Marketable Gas Dec.31, 1966 Bcf	(8) Estimated Heating Value Btu/cu ft	(9) Remaining Marketable Gas (1000 Btu Basis) Bcf	(10) Remarks
Mazeppa	Mississippian	20	10/15	15	-	15	1,060	16	Presently considered beyond economic reach.
McLeod	Belly River	1	15/5	1	-	1	980	1	
	Cadomin	7	25/10	5	-	5	980	5	
	Jurassic	7	25/10	5	-	5	1,010	5	
Medicine Hat	Medicine Hat	2,370	20/5	1,800	420	1,380	970*	1,339	Gas sold to Trans-Canada Pipe Lines Limited, Many Islands Pipe Lines Limited and supplies local utility.
	Bow Island	14	25/5	10	1	9	970	9	
	Sawtooth	26	20/5	20	1	19	1,000	19	
Medicine River	Blairmore	140	15/10	110	-	110	1,150	127	Gas sold to Trans-Canada Pipe Lines Limited.
	Blairmore Assoc.	28	20/5	21	-	21	1,150	24	
	Blairmore Solution	36	40/45	12	-	12	1,250	15	
	Jurassic	14	20/5	11	-	11	1,020	11	
	Jurassic Assoc.	34	20/5	26	-	26	1,020	27	
	Jurassic Solution	72	35/45	26	-	26	1,100	29	
	Mississippian	15	15/5	12	-	12	1,100	13	
	Mississippian Assoc.	11	20/5	7	-	7	1,100	8	
	Mississippian Solution	29	40/45	10	-	10	1,200	12	
	Leduc Assoc.	5	10/20	4	-	4	1,000	4	
Millet	Blairmore	21	20/10	15	-	15	1,020	15	Presently considered beyond economic reach.
Minnehik-Buck Lake	Blairmore	6	20/5	4	-	4	1,000	4	
	Pekisko A	520	15/10	400	67	333	1,130	376	Gas sold to Alberta and Southern Gas Co. Ltd.
	Pekisko B	71	15/10	54	-	54	1,130	61	
Mitsue	Gilwood Assoc.	3	10/25	2	-	2	1,170	2	Presently considered beyond economic reach.
	Gilwood A Solution	390	45/25	160	-	160	1,170	187	
Moose Mountain	Mississippian	75	20/25	45	-	45	1,000	45	
Morinville	Viking	3	25/5	2	-	2	1,000	2	
	Blairmore	140	20/10	99	40	59	1,070	63	Gas sold to Canadian Industrial Gas Limited and supplies local utility.
Mountain Park	Triassic	29	10/5	25	-	25	1,090	27	Presently considered beyond economic reach.
Muriel Lake	Blairmore	9	25/5	6	1	5	1,000	5	Supplies local utility.

(1) FIELD OR AREA	(2) ZONE	(3) INITIAL GAS IN PLACE Bcf	(4) LOSSES RESERVOIR/SURFACE PER CENT	(5) INITIAL MARKETABLE GAS Bcf	(6) MARKETABLE GAS PRODUCED TO DEC. 31, 1966 Bcf	(7) REMAINING MARKETABLE GAS DEC. 31, 1966 Bcf	(8) ESTIMATED HEATING VALUE Btu/cu ft	(9) REMAINING MARKETABLE GAS (1000 Btu BASIS) Bcf	(10) REMARKS
Nevis	Blairmore	61	15/10	50	-	50	1,000	50	
	Devonian	970	15/15	700	128	572	1,000*	572	Gas sold to Trans-Canada Pipe Lines Limited.
New Norway	Viking	3	20/10	2	-	2	1,000	2	
	Blairmore	11	10/5	9	-	9	1,010	9	
Nipisi	Gilwood A Solution	230	45/25	96	-	96	1,150	110	Presently considered beyond economic reach.
Niton	Basal Quartz	13	20/5	10	-	10	1,070	11	
	Cadomin	8	10/5	7	-	7	1,070	7	
Nordegg	Triassic	9	10/10	7	-	7	1,000	7	Presently considered beyond economic reach.
	Mississippian	25	10/10	20	-	20	1,000	20	
Normandville	Peace River	1	20/5	1	-	1	990	1	
	Gething	7	15/5	6	-	6	980	6	
	Triassic	4	15/5	3	-	3	1,090	3	
	Belloy	1	10/5	1	-	1	1,060	1	
	Mississippian	31	15/5	25	2	23	1,050	24	Supplies local utility.
Obed	Blairmore	12	15/5	10	-	10	1,040	10	
	Mississippian	4	15/10	3	-	3	1,050	3	
	Nisku	110	15/35	60	-	60	1,060	64	
Oberlin	Blairmore	3	20/5	2	2	<1	1,090*	<1	Supplies local utility.
Okotoks	Crossfield	470	10/60	170	36	134	1,000	134	Gas sold to Canadian Western Natural Gas Company Limited.
Olds	Wabamun A	410	15/25	260	22	238	1,050	250	Gas sold to Trans-Canada Pipe Lines Limited.
	Wabamun (Other)	34	15/20	23	-	23	1,050	24	
Oyen	Viking	43	15/5	35	6	29	980*	28	Gas sold to Trans-Canada Pipe Lines Limited.
	Detrital	11	15/5	9	1	8	1,010*	8	
Paddle River	Jurassic-Detrital	190	25/10	130	3	127	1,070	136	Gas sold to North-western Utilities, Limited.
	Mississippian	40	25/10	27	-	27	1,060	29	
Pakowki Lake	Bow Island	16	35/5	10	6	4	940	4	Gas sold to Canadian-Montana Gas Company Ltd.

(1) FIELD OR AREA	(2) ZONE	(3) INITIAL GAS IN PLACE BCF	(4) LOSSES RESERVOIR/SURFACE PER CENT	(5) INITIAL MARKETABLE GAS BCF	(6) MARKETABLE GAS PRODUCED TO DEC. 31, 1966 BCF	(7) REMAINING MARKETABLE GAS DEC. 31, 1966 BCF	(8) ESTIMATED HEATING VALUE BTU/CU FT	(9) REMAINING MARKETABLE GAS (1000 BTU BASIS) BCF	(10) REMARKS
Parkland	Rundle	3	15/15	2	2	0	1,010	0	
Parkland North-East	Rundle	21	15/15	15	-	15	1,010	15	Presently considered beyond economic reach.
Pembina	Belly River	57	20/5	43	2	41	1,180	48	Gas sold to North-Western Utilities, Limited.
	Belly River Assoc.	25	20/5	19	-	19	1,180	22	
	Belly River Solution	90	55/80	9	-	9	1,180	11	
	Cardium Solution	4,100	64/40	880	153	727	1,170	874	
	Viking	11	20/5	8	-	8	1,100	9	
	Glauconitic A	140	15/10	110	18	92	1,120	103	
	Blairmore (Other)	120	15/5	96	4	92	1,120	103	
	Jurassic	19	15/5	15	-	15	1,050	16	
	Mississippian	14	15/15	10	-	10	1,050	11	
Pendant D'Oreille	Bow Island	210	20/5	160	88	72	940	68	Gas sold to Canadian-Montana Gas Company Ltd.
	Basal Colorado	1	25/5	1	-	1	1,000	1	
	Mannville	66	20/5	50	14	36	1,000	36	
Penhold	Viking	14	10/5	12	-	12	1,020	12	Presently considered beyond economic reach.
Phil Can	Gething	10	15/5	8	-	8	980	8	Presently considered beyond economic reach.
	Mississippian	5	15/5	4	-	4	1,050	4	
Pincher Creek	Rundle A	1,110	35/25	540	223	317	1,020*	324	Gas sold to Trans-Canada Pipe Lines Limited.
Pine Creek	Wabamun	190	15/50	80	11	69	1,050*	73	Gas used to maintain pressure in Windfall Field.
	Wabamun (Other)	24	15/50	10	-	10	1,050*	11	
	D-3	770	60/35	200	126	74	1,050*	78	
Pine North-West	D-3 A	190	15/25	120	-	120	1,050	126	
Plain Lake	Viking	3	25/5	2	-	2	980	2	Presently considered beyond economic reach.
	Blairmore	28	20/5	21	-	21	1,000	21	
Plover Lake	Viking	18	10/5	15	-	15	1,000	15	Presently considered beyond economic reach.
Pouce Coupe	Peace River A	150	30/5	100	78	22	1,000	22	Gas sold to Westcoast Transmission Company Limited.
	Peace River (Other)	3	20/5	2	-	2	1,000	2	
	Cadomin	4	15/5	3	-	3	1,060	3	
Pouce Coupe South	Doe Creek	5	40/5	3	2	1	1,000	1	Gas sold to Westcoast Transmission Company Limited and Peace River
	Peace River	110	40/5	65	47	18	1,040	19	
	Gething	16	20/5	12	10	2	1,000	2	

(1) FIELD OR AREA	(2) ZONE	(3) INITIAL GAS IN PLACE BCF	(4) LOSSES RESERVOIR/SURFACE PER CENT	(5) INITIAL MARKETABLE GAS BCF	(6) MARKETABLE GAS PRODUCED TO DEC. 31, 1966 BCF	(7) REMAINING MARKETABLE GAS DEC. 31, 1966 BCF	(8) ESTIMATED HEATING VALUE BTU/CU FT	(9) REMAINING MARKETABLE GAS (1000 BTU BASIS) BCF	(10) REMARKS
Pouce Coupe South (Cont'd)	Cadomin	2	15/5	2	2	0	1,000	0	Transmission Company Limited.
	Triassic	18	20/5	14	-	14	1,000	14	
Prevo	Blairmore	5	15/10	4	-	4	1,020	4	
	Pekisko	45	15/10	34	5	29	1,110*	32	Gas sold to Trans-Canada Pipe Lines Limited.
Princess	Second White Specks	60	30/5	40	3	37	970*	36	Gas sold to Trans-Canada Pipe Lines Limited.
	Bow Island	2	25/5	1	-	1	1,010	1	
	Basal Colorado	6	25/5	4	1	3	1,020*	4	
	Basal Colorado Assoc.	21	25/5	15	-	15	1,020*	15	
	Mannville	50	15/5	40	-	40	1,020*	41	
	Mannville Assoc.	36	20/5	27	20	7	1,020*	7	
	Jefferson	31	15/5	25	2	23	1,030*	24	
Provost	Viking A & B	830	20/5	630	188	442	1,030*	455	Gas sold to Trans-Canada Pipe Lines Limited and supplies local utility.
	Blairmore	19	15/5	15	-	15	1,000	15	
Rainbow	Keg River	3	10/30	2	-	2	1,240	2	Presently considered beyond economic reach.
	Keg River Assoc.	83	15/15	60	-	60	1,260	76	
Redland	Belly River	1	35/5	1	-	1	1,000	1	
	Viking	3	20/5	2	-	2	1,000	2	
	Mannville	18	15/5	15	1	14	1,050	15	Gas sold to Canadian Western Natural Gas Company Limited.
Redwater	Viking	27	25/5	19	1	18	1,040	19	Supplies local utility and gas sold to Canadian Industrial Gas & Oil Ltd.
	Mannville	1	20/5	1	-	1	1,050	1	
	Wabamun	5	15/5	4	2	2	1,070	2	
	Leduc Solution	230	40/65	49	10	39	1,220	48	
Red Willow	Viking	13	20/5	10	-	10	1,020	10	Presently considered beyond economic reach.
	Mannville	12	20/10	9	-	9	1,100	10	
Retlaw	Bow Island	3	25/5	2	-	2	950	2	
	Basal Colorado	8	25/5	6	-	6	1,020	6	
	Mannville	69	20/10	50	3	47	1,000	47	Gas sold to Trans-Canada Pipe Lines Limited.
Rich	Mannville	16	15/10	12	-	12	1,100	13	Gas sold to Trans-Canada Pipe Lines Limited.

(1) Field or Area	(2) Zone	(3) Initial Gas in Place Bcf	(4) Losses Reservoir/Surface Per Cent	(5) Initial Marketable Gas Bcf	(6) Marketable Gas Produced to Dec. 31, 1966 Bcf	(7) Remaining Marketable Gas Dec. 31, 1966 Bcf	(8) Estimated Heating Value Btu/cu ft	(9) Remaining Marketable Gas (1000 Btu Basis) Bcf	(10) Remarks
Richdale	Viking	14	25/5	10	-	10	1,010	10	
	Mannville	11	25/5	8	-	8	1,050	8	
Rochester	Viking	4	20/5	3	-	3	1,000	3	
	Blairmore	25	25/5	18	-	18	1,000	18	
	Wabamun	6	10/5	5	-	5	1,070	5	
Rowley	Belly River	6	20/5	4	-	4	1,000	4	
	Viking	10	15/5	8	-	8	1,040	8	
	Mannville	9	10/5	8	-	8	1,070	9	
	Mannville Assoc.	10	15/5	8	-	8	1,070	9	
	Pekisko Assoc.	47	10/10	38	-	38	1,080	41	
Rycroft	Gething	16	15/5	13	3	10	1,040	10	Supplies local utility.
Saddle Hills	Peace River	48	30/5	32	-	32	1,020	33	
	Gething	5	20/5	4	-	4	980	4	
	Permo-Penn	22	20/15	15	-	15	1,030	15	
Samson	Blairmore Assoc.	9	20/5	7	5**	3	1,040	3	Gas sold to North-western Utilities, Limited.
	Blairmore Solution	2	35/5	1					
Sarcee	Rundle A	210	15/15	150	30	120	1,050	126	Gas sold to Canadian Western Natural Gas Company Limited.
Sarcee West	Kootenay	13	20/5	10	-	10	1,020	10	
Savanna Creek	Rundle A	300	10/25	200	22	178	1,020	182	Gas sold to Westcoast Transmission Company Limited.
Sedalia	Viking A	79	20/5	60	5	55	1,010*	56	Gas sold to Trans-Canada Pipe Lines Limited.
	Viking (Other)	53	20/5	40	-	40	1,010*	40	
	Mannville	1	25/5	1	-	1	1,010	1	
Sedgewick	Viking	3	25/5	2	-	2	1,000	2	
	Blairmore	42	20/5	32	-	32	990	32	
Seiu Lake	Viking	8	25/5	6	-	6	1,000	6	
	Mannville	28	20/5	21	-	21	1,000	21	
September Lake	Blairmore	11	25/5	8	-	8	1,030	8	
	Blairmore Assoc.	1	25/5	1	-	1	1,030	1	
	Wabamun	1	25/5	1	-	1	940	1	

(1) FIELD OR AREA	(2) ZONE	(3) INITIAL GAS IN PLACE BcF	(4) LOSSES RESERVOIR/SURFACE PER CENT	(5) INITIAL MARKETABLE GAS BcF	(6) MARKETABLE GAS PRODUCED TO DEC.31, 1966 BcF	(7) REMAINING MARKETABLE GAS DEC.31, 1966 BcF	(8) ESTIMATED HEATING VALUE Btu/cu FT	(9) REMAINING MARKETABLE GAS (1000 Btu BASIS) BcF	(10) REMARKS
Sibbald	Viking	33	20/5	25	11	14	960*	15	Gas sold to Trans-Canada Pipe Lines Limited.
	Basal Colorado	13	20/5	10	-	10	970	10	
	Banff	1	20/5	1	-	1	1,050	1	
Simonette	Cadomin	12	15/5	10	-	10	1,060	11	
	Wabamun	60	15/35	33	-	33	1,070	35	
	D-3 Solution	270	45/40	89	-	89	1,020	91	
Smith Coulee	Bow Island	73	15/5	59	19	40	930	37	Gas sold to Canad÷an-Montana Gas Company Ltd.
St. Albert-Big Lake	Viking	1	20/5	1	-	1	1,070*	1	
	Viking Assoc.	1	20/5	1	-	1	1,070*	1	
	Ostracod A	99	15/5	80	57	23	1,070*	25	Gas sold to Canadian Industrial Gas Limited.
	Blairmore (Other)	50	15/5	40	-	40	1,070*	43	
Standard	Viking	26	20/5	20	-	20	1,000	20	
Steep Creek	Gething	6	15/5	5	-	5	1,020	5	Presently considered beyond economic reach.
	Triassic	9	15/10	7	-	7	1,030	7	
	Permo-Penn	15	10/10	12	-	12	1,030	12	
Stettler	Viking	3	25/5	2	-	2	1,020	2	Gas sold to Trans-Canada Pipe Lines Limited.
	Nisku Solution	20	60/90	1	-	1	1,130	1	
	Leduc Solution	14	45/95	1	-	1	1,140	1	
Stolberg	Rundle A	86	10/10	70	-	70	1,040	73	
St. Paul	Blairmore	5	20/5	4	4	<1	1,000*	<1	Supplies local utility.
Strathmore	Belly River	14	20/5	11	2	9	1,000	9	Gas sold to Canadian Western Natural Gas Company Limited.
	Viking	9	20/5	7	-	7	1,000	7	
	Mississippian	2	20/5	1	-	1	1,000	1	
Sturgeon Lake	Gething	12	15/5	10	-	10	1,000	10	Presently considered beyond economic reach.
	Gilwood	3	25/5	2	-	2	1,100	2	
Sturgeon Lake South	Gething	16	15/5	13	-	13	1,000	13	
	Triassic Assoc.	5	10/5	4	-	4	1,180	5	
	Triassic Solution	13	35/70	3	-	3	1,180	4	
	Wabamun	7	10/20	5	1	4	1,070	4	
	Leduc Assoc.	8	10/25	5	-	5	1,080	5	
	D-3 Solution	270	45/45	83	12	71	1,080	77	Gas sold to Canadian Utilities Limited.
Sturgeon Lake South General Area	Gething	56	15/5	45	-	45	1,000	45	
	Triassic	7	15/5	5	-	5	1,180	6	
	Permo-Penn	3	20/5	2	-	2	1,030	2	

(1) FIELD OR AREA	(2) ZONE	(3) INITIAL GAS IN PLACE BCF	(4) LOSSES RESERVOIR/SURFACE PER CENT	(5) INITIAL MARKETABLE GAS BCF	(6) MARKETABLE GAS PRODUCED TO DEC. 31, 1966 BCF	(7) REMAINING MARKETABLE GAS DEC. 31, 1966 BCF	(8) ESTIMATED HEATING VALUE BTU/CU FT	(9) REMAINING MARKETABLE GAS (1000 BTU BASIS BCF	(10) REMARKS
SUNDRE	VIKING	7	20/10	5	-	5	1,020	5	
	BLAIRMORE	6	15/10	4	-	4	1,020	4	
	BLAIRMORE ASSOC.	10	10/10	8	-	8	1,020	8	
	RUNDLE ASSOC.	21	15/15	15	-	15	1,070	16	
	RUNDLE SOLUTION	75	55/35	22	-	22	1,100	24	
SUNNYNOOK	VIKING	3	25/5	2	-	2	1,010	2	
	MANNVILLE	30	15/5	24	-	24	1,030	25	
SWALWELL	VIKING	4	20/5	3	-	3	1,000	3	
	PEKISKO ASSOC.	43	15/5	35	-	35	1,100	39	
SWAN HILLS	GETHING	2	10/5	1	-	1	1,050	1	
	BEAVERHILL LAKE A & B SOLUTION	1,090	55/35	320	11	309	1,120	346	GAS SOLD TO NORTH-WESTERN UTILITIES, LIMITED.
SWAN HILLS SOUTH	BEAVERHILL LAKE A & B SOLUTION	570	55/30	180	7	173	1,120	194	GAS SOLD TO NORTH-WESTERN UTILITIES, LIMITED.
SYLVAN LAKE	VIKING	4	15/5	3	-	3	1,010	3	
	GLAUCONITIC A	210	15/10	160	12	148	1,100	163	GAS SOLD TO TRANS-CANADA PIPE LINES LIMITED.
	BLAIRMORE (OTHER)	140	15/10	110	10	100	1,100	110	
	BLAIRMORE ASSOC.	2	20/10	2	-	2	1,100	2	
	DETRITAL	9	20/10	7	-	7	1,100	8	
	JURASSIC	22	15/10	17	-	17	1,020	17	
	JURASSIC ASSOC.	43	20/10	31	-	31	1,020	32	
	JURASSIC SOLUTION	23	40/45	8	-	8	1,100	9	
	PEKISKO L	76	20/10	55	-	55	1,100	61	
	MISSISSIPPIAN (OTHER)	42	15/10	32	4	28	1,100	31	
	MISSISSIPPIAN ASSOC.	13	20/10	9	-	9	1,100	10	
	MISSISSIPPIAN SOLUTION	62	40/60	15	-	15	1,200	18	
	LEDUC ASSOC.	35	20/10	25	2**	28	1,020	29	
	LEDUC SOLUTION	15	35/45	5					
TABER SOUTH	BOW ISLAND	17	30/5	11	-	11	1,000	11	
TANGENT	CADOTTE	14	30/5	9	-	9	1,010	9	
	GETHING A	76	20/5	58	-	58	1,000	58	
	GETHING (OTHER)	3	20/5	2	-	2	1,000	2	
	TRIASSIC	53	20/5	40	-	40	1,180	47	
TELFORDVILLE	MISSISSIPPIAN	12	15/10	9	-	9	1,110	10	
	WABAMUN	6	15/15	4	-	4	1,090	4	
THORHILD	BLAIRMORE	12	15/5	10	-	10	1,000	10	

(1) FIELD OR AREA	(2) ZONE	(3) INITIAL GAS IN PLACE BCF	(4) LOSSES RESERVOIR/SURFACE PER CENT	(5) INITIAL MARKETABLE GAS BCF	(6) MARKETABLE GAS PRODUCED TO DEC. 31, 1966 BCF	(7) REMAINING MARKETABLE GAS DEC. 31, 1966 BCF	(8) ESTIMATED HEATING VALUE BTU/CU FT	(9) REMAINING MARKETABLE GAS (1000 BTU BASIS) BCF	(10) REMARKS
Three Hills Creek	Belly River	9	15/5	7	-	7	970	7	Gas sold to Trans-Canada Pipe Lines Limited.
	Viking	8	20/5	6	-	6	1,000	6	
	Pekisko	210	10/10	170	15	155	1,110*	172	
	Leduc	11	25/15	7	-	7	1,100	8	
Turin	Bow Island	14	20/5	10	-	10	970	10	
	Mannville	35	10/5	30	-	30	1,020	31	
	Ellis	5	15/5	4	-	4	1,070	4	
	Mississippian	4	10/10	3	-	3	1,050	3	
Turner Valley	Mississippian Assoc.	1,500	10/70	410	284	126	1,110	140	Gas sold to Canadian Western Natural Gas Company Limited and supplies local utility.
	Mississippian Solution	1,400	45/55	350	276	74	1,110	82	
Tuttle	Mannville	4	10/5	3	-	3	1,000	3	Gas sold to Canadian Western Natural Gas Company Limited.
Tweedie	Viking	11	25/5	8	-	8	1,000	8	
	Blairmore	21	25/5	15	-	15	1,040	16	
Twining North	Mannville	7	20/5	5	-	5	1,100	6	
	Mississippian	1	20/5	1	-	1	1,110	1	
	Mississippian Assoc.	38	20/5	29	-	29	1,110	32	
	Mississippian Solution	16	40/15	8	-	8	1,110	9	
Two Creek	Triassic	12	10/5	10	-	10	1,090	11	Presently considered beyond economic reach.
Usona	Blairmore	14	10/5	12	-	12	1,110	13	Presently considered beyond economic reach.
Verger	Bow Island	3	25/5	2	-	2	1,100	2	
	Basal Colorado	7	20/5	5	1	4	1,060	4	Gas sold to Trans-Canada Pipe Lines Limited.
	Mannville	74	15/5	60	3	57	1,050	60	
	Mississippian	3	15/10	2	-	2	1,070	2	
Viking-Kinsella	Viking	950	15/5	770	403	367	1,000*	367	Gas sold to North-western Utilities, Limited and supplies local utility.
	Blairmore	80	20/5	61	14	47	1,000	47	
	Nisku	17	20/5	13	4	9	990*	9	
	Leduc	1	15/5	1	-	1	990*	1	
Virginia Hills	Blairmore	9	10/5	8	-	8	1,040	8	
	Permian Assoc.	20	15/10	15	-	15	1,160	17	
	Beaverhill Lake Solution	230	60/40	54	3	51	1,070	55	Gas sold to North-western Utilities, Limited.
	Slave Point	4	20/20	2	-	2	1,070	2	
Vulcan	Mannville	26	20/5	20	-	20	1,000	20	
	Rundle	23	20/20	15	-	15	1,010	15	

(1) FIELD OR AREA	(2) ZONE	(3) INITIAL GAS IN PLACE BCF	(4) LOSSES RESERVOIR/SURFACE PER CENT	(5) INITIAL MARKETABLE GAS BCF	(6) MARKETABLE GAS PRODUCED TO DEC. 31, 1966 BCF	(7) REMAINING MARKETABLE GAS DEC. 31, 1966 BCF	(8) ESTIMATED HEATING VALUE BTU/CU FT	(9) REMAINING MARKETABLE GAS (1000 BTU BASIS) BCF	(10) REMARKS
WAINWRIGHT	VIKING	5	20/5	4	-	4	980	4	
	BLAIRMORE	15	15/5	12	-	12	940	11	
	BLAIRMORE ASSOC.	10	20/5	8	-	8	940	8	
WASKAHIGAN	DUNVEGAN	66	20/5	50	-	50	1,100	55	
WATERTON	RUNDLE B	1,410	15/30	840	78	762	1,040*	793	GAS SOLD TO ALBERTA AND SOUTHERN GAS CO. LTD.
	RUNDLE C	520	15/50	220	5	215	1,040*	226	
	RUNDLE D & E	450	15/50	190	30	160	1,040*	166	
	RUNDLE (OTHER)	15	15/30	9	4	5	1,040*	5	
	WABAMUN C	110	20/25	63	13	50	1,020	51	
	WABAMUN (OTHER)	140	20/15	93	9	84	1,020	86	
WATTS	VIKING	3	20/5	2	1	1	1,030*	1	SUPPLIES LOCAL UTILITY.
	MISSISSIPPIAN	1	20/5	1	-	1	1,070	1	
WAYNE-ROSEDALE	BELLY RIVER	8	20/5	6	-	6	1,000	6	
	VIKING A	160	15/5	130	20	110	1,090*	120	GAS SOLD TO TRANS-CANADA PIPE LINES LIMITED, CANADIAN WESTERN NATURAL GAS COMPANY LIMITED AND SUPPLIES LOCAL UTILITY.
	VIKING (OTHER)	74	20/5	56	3	53	1,090*	58	
	GLAUCONITIC A	150	15/5	120	18	102	1,120	114	
	BLAIRMORE (OTHER)	72	15/5	58	7	51	1,120	57	
WEST DRUMHELLER	BLAIRMORE	4	15/5	3	-	3	1,100	3	
	RUNDLE	1	20/5	1	-	1	1,040	1	
	NISKU	9	10/15	7	-	7	1,090	8	
WESTEROSE	VIKING	3	20/5	2	-	2	1,000	2	
	BLAIRMORE	7	20/5	5	-	5	1,020	5	
	NISKU	1	10/5	1	-	1	1,050	1	
	D-3 ASSOC.	130	10/20	90	-7	97	1,070	104	
	D-3 SOLUTION	150	30/20	83	7	76	1,100	84	GAS INJECTED INTO GAS CAP.
WESTEROSE SOUTH	WABAMUN	9	10/25	6	-	6	1,090	7	
	D-3 A	1,640	10/15	1,250	297	953	1,070*	1,020	GAS SOLD TO TRANS-CANADA PIPE LINES LIMITED AND ALBERTA AND SOUTHERN GAS CO. LTD.
WESTLOCK	VIKING	330	20/5	250	35	215	1,060	228	GAS SOLD TO CANADIAN INDUSTRIAL GAS LIMITED AND SUPPLIES LOCAL UTILITY.
	BLAIRMORE	4	15/5	3	-	3	1,100*	3	
WEST PRAIRIE	CADOTTE	18	10/5	15	-	15	1,040	16	PRESENTLY CONSIDERED BEYOND ECONOMIC REACH.
	BLUESKY	6	10/5	5	-	5	990	5	

(1) FIELD OR AREA	(2) ZONE	(3) INITIAL GAS IN PLACE BCF	(4) LOSSES RESERVOIR/SURFACE PER CENT	(5) INITIAL MARKETABLE GAS BCF	(6) MARKETABLE GAS PRODUCED TO DEC. 31, 1966 BCF	(7) REMAINING MARKETABLE GAS DEC. 31, 1966 BCF	(8) ESTIMATED HEATING VALUE BTU/CU FT	(9) REMAINING MARKETABLE GAS (1000 BTU BASIS) BCF	(10) REMARKS
Whitelaw	Bluesky	28	15/5	23	5	18	1,020	18	Supplies local utility.
	Triassic	31	15/5	25	-	25	1,090	27	
Wildcat Hills	Rundle A	810	15/20	550	76	474	1,050*	498	Gas sold to Alberta and Southern Gas Co. Ltd.
Wildhorse Creek	Mississippian	150	15/20	100	-	100	940	94	
Wildmere	Blairmore	37	20/5	28	9	19	960*	18	Gas sold to North-western Utilities, Limited.
Wildunn Creek	Viking	34	25/5	25	3	22	1,010	22	Gas sold to Trans-Canada Pipe Lines Limited.
Willesden Green	Belly River	13	20/5	10	-	10	1,000	10	
	Cardium	12	20/5	9	-	9	1,100	10	
	Cardium A Solution	430	60/55	78	2	76	1,100	84	Gas sold to Alberta and Southern Gas Co. Ltd.
	Blairmore	29	15/10	22	-	22	1,100	24	
	Blairmore Assoc.	2	25/15	1	-	1	1,100	1	
	Mississippian	3	20/5	2	-	2	1,100	2	
Willingdon	Viking	3	25/5	2	-	2	980	2	
	Mannville	17	25/5	12	2	10	990	10	Gas sold to Western Minerals Ltd. and supplies local utility.
	Leduc	12	20/5	9	7	2	1,000*	2	
Wilson Creek	Pekisko	51	15/10	39	-	39	1,090	43	
	Banff	13	15/10	10	-	10	1,080	11	
Wimborne	Viking	2	25/5	1	-	1	1,020	1	
	Mississippian	2	10/10	1	-	1	1,100	1	
	Nisku	1	15/15	1	-	1	1,160	1	
	Nisku Assoc.	2	20/15	1	-	1	1,160	1	
	D-3 A Assoc.	320	10/30	200	21**	229	1,000	229	Gas sold to Trans-Canada Pipe Lines Limited.
	D-3 A Solution	110	35/30	50					
Windfall	Viking	17	25/5	12	-	12	1,030	12	
	Mississippian	5	15/5	4	2	2	1,040	2	Gas sold to Alberta and Southern Gas Co. Ltd., pressure maintained by Pine Creek gas.
	Leduc	3	10/35	2	-	2	1,080*	2	
	D-3 A Assoc.	780	20/35	400	35**	475	1,080*	513	
	D-3 A Solution	240	30/35	110					
Winnifred	Bow Island	21	20/5	16	-	16	1,000	16	
Wintering Hills	Belly River	2	25/5	1	-	1	1,000	1	

(1) FIELD OR AREA	(2) ZONE	(3) INITIAL GAS IN PLACE BCF	(4) LOSSES RESERVOIR/SURFACE PER CENT	(5) INITIAL MARKETABLE GAS BCF	(6) MARKETABLE GAS PRODUCED TO DEC. 31, 1966 BCF	(7) REMAINING MARKETABLE GAS DEC. 31, 1966 BCF	(8) ESTIMATED HEATING VALUE BTU/CU FT	(9) REMAINING MARKETABLE GAS (1000 BTU BASIS) BCF	(10) REMARKS
Wintering Hills (Cont'd)	Viking	35	25/5	25	-	25	1,010	25	
	Viking Assoc.	10	25/5	7	-	7	1,010	7	
	Mannville	22	20/5	17	-	17	1,070	18	
	Mannville Assoc.	22	25/10	15	-	15	1,070	16	
	Mississippian	2	20/5	1	-	1	1,030	1	
Wizard Lake	Belly River	2	25/5	1	-	1	1,050	1	
	Viking	1	15/5	1	-	1	1,070	1	
	Blairmore	3	15/5	2	2	<1	1,120	<1	Gas sold to North-western Utilities, Limited.
	Blairmore Assoc.	12	20/15	8	8	<1	1,120	<1	
	D-3 A Solution	230	35/25	110	17	93	1,250	116	
Woking	Peace River	5	10/5	4	-	4	1,040	4	Supplies local utility.
	Spirit River	3	20/5	2	-	2	1,040	2	
	Bluesky	4	20/5	3	-	3	1,040	3	
	Permo-Penn	3	20/5	2	-	2	1,060	2	
	Kiskatinaw	3	25/5	2	-	2	1,070	2	
Wood River	Blairmore	46	20/10	33	7	26	1,090	28	Gas sold to Trans-Canada Pipe Lines Limited.
Worsley	D-3 A	110	15/5	85	32	53	1,070	57	Gas sold to Westcoast Transmission Company Limited and supplies local utility.
	D-3 B	89	15/5	72	13	59	1,070	63	
	Leduc (Other)	57	15/5	46	6	40	1,070	43	
	Leduc Assoc.	1	20/5	1	-	1	1,070	1	
Yekau Lake	Viking	3	20/5	2	2	<1	1,070	<1	Injected into Leduc-Woodbend.
	SUB TOTAL			43,421	6,275	37,146		39,561	
	OTHER RESERVES								
	Less than 10 Bcf			786	-	786		834	
	Confidential Pools			181	-	181		202	
	TOTAL RESERVES, DECEMBER 31, 1966			44,388	6,275	38,113		40,597	
	TOTAL RESERVES WITHIN ECONOMIC REACH			42,550	6,275	36,275		38,637	
	TOTAL RESERVES BEYOND ECONOMIC REACH			1,838	-	1,838		1,960	

* MEASURED HIGHER HEATING VALUE
** INCLUDES SOLUTION GAS PRODUCTION

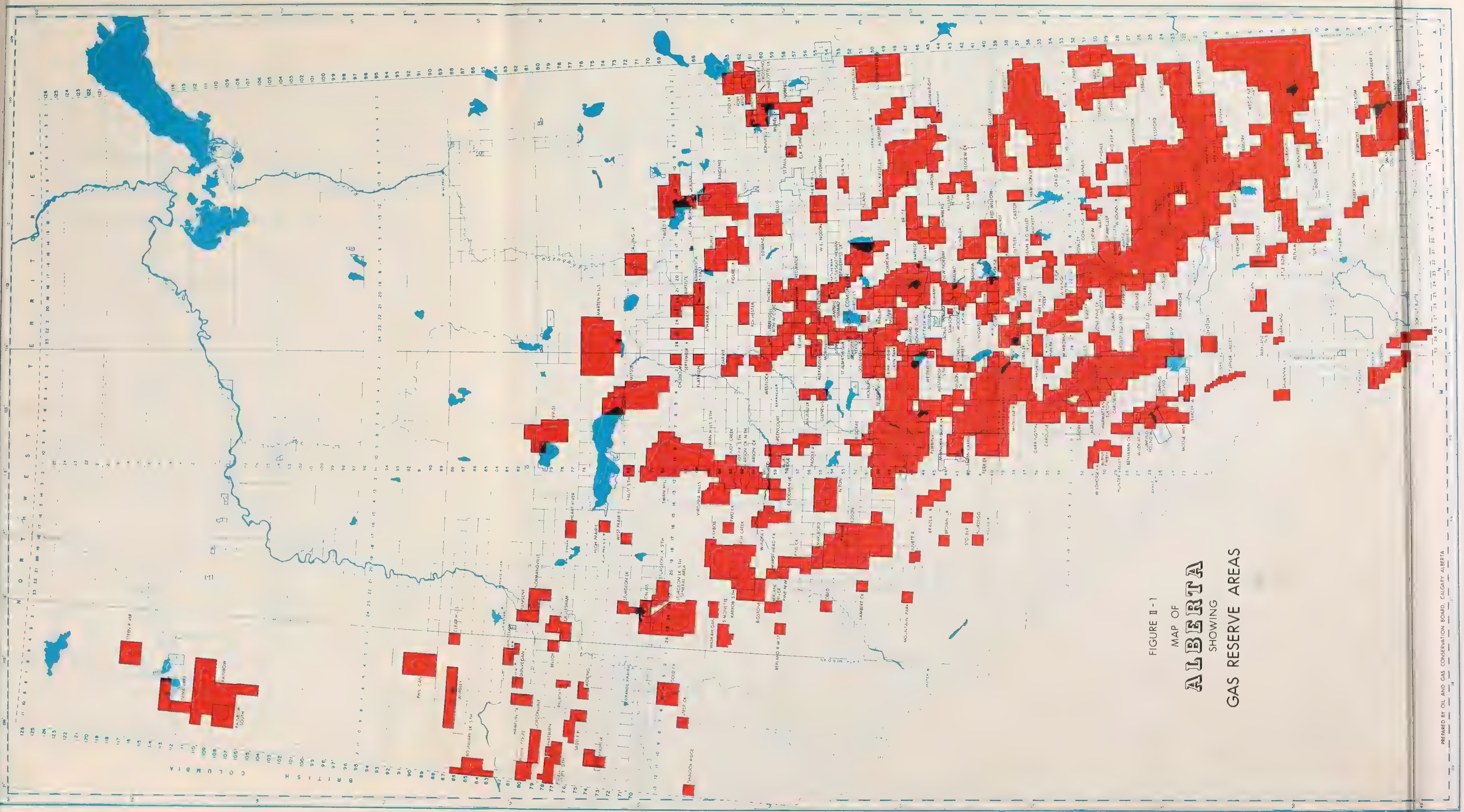
S A S K A T C H E W A N
N O R T H W E S T T E R R I T O R I E S
B R I T I S H C O L U M B I A
RAINBOW
EDMONTON
CALGARY
MEDICINE HAT

FIGURE II-1
MAP OF
ALBERTA
SHOWING
GAS RESERVE AREAS

PREPARED BY OIL AND GAS CONSERVATION BOARD, CALGARY ALBERTA

III THE ESTABLISHED RESERVES OF NATURAL GAS LIQUIDS IN THE PROVINCE OF ALBERTA

Natural gas liquids are defined in The Oil and Gas Conservation Act as "propane, butanes or pentanes plus, or a combination of them, obtained from the processing of raw gas or condensate." For the purposes of this report, condensate recovered in stock tanks and marketed without processing is included in the reserves of pentanes plus and hence natural gas liquids. Also included in the pentanes plus category are higher vapour pressure products containing substantial quantities of butanes that are recovered at several plants throughout the Province.

The Board estimates the remaining established reserves of natural gas liquids in the Province as of December 31, 1966, to be some 1,258 million barrels. This is essentially the same figure as the 1,261 million barrels, estimated as of December 31, 1965. The changes in the reserves during the last year are summarized in the following tabulation.

	Millions of Barrels			
	Propane	Butanes	Pentanes Plus	Total
Remaining Established Reserves of Natural Gas Liquids at December 31, 1965	356.2	233.6	671.3	1,261.1
Addition to Reserves during 1966	40.4	+29.6	-26.4	43.6
Production during 1966	11.6	7.4	28.1	47.1
Remaining Established Reserves of Natural Gas Liquids at December 31, 1966	385.0	255.8	616.8	1,257.6

The reserves of natural gas liquids consist of liquids estimated to be recoverable from the Province's established gas reserves by processing to the extent that facilities have already been installed, or where processing facilities are not yet in operation, to the extent that the Board has knowledge of plans for the installation of such facilities, or to the extent that facilities will be necessary to render the gas marketable.

The estimates have been prepared by applying the average liquid recovery ratio to the remaining established marketable reserves of that pool. The average liquid recovery ratios have been estimated on the basis of history wherever fields have been producing for a reasonable length of time. Where plants are in the planning or construction stage or have been operating for only a short time, the rates have been based on submissions presented to the Board in support of applications under section 38 of The Oil and Gas Conservation Act, or on the Board's general knowledge of plans for future processing plants in the Province. Changes in the composition of gas being processed and the recoveries expected from any particular pool have been based on the available reservoir fluid studies.

The increase in propane and butanes reserves during 1966 results from the expected addition of fractionation facilities to process the gas reserves connected to the Waterton and Olds gas processing plants, to the expected recovery from the Lookout Butte gas reserves, and from an increase of the gas reserves connected to the Judy Creek gas processing plant. The decrease in pentanes plus reserves is attributed mainly to the re-assessment of the recovery from the Gold Creek gas reserves.

The more significant changes in the 1966 estimate of remaining reserves occurred in the following plants or areas.

Plant or Area	Board's Estimate as of Dec. 31, 1965	Board's Estimate as of Dec. 31, 1966	Change	Remarks
	(Millions of Barrels)			
Propane				
Judy Creek	43.3	52.4	+9.1	Increase in gas reserves
Lookout Butte	-	4.8	+4.8	Anticipated recovery
Nevis	8.6	5.3	-3.3	Decrease in gas reserves
Olds	-	3.4	+3.4	Installation of propane recovery facilities
Pembina	34.3	25.4	-8.9	Decrease in gas reserves
Waterton	-	9.1	+9.1	Installation of propane recovery facilities
Butanes				
Judy Creek	25.3	30.8	+5.5	Increase in gas reserves
Lookout Butte	-	5.2	+5.2	Anticipated recovery
Olds	-	3.1	+3.1	Installation of butanes recovery facilities
Pembina	28.4	21.1	-7.3	Decrease in gas reserves
Waterton	-	10.3	+10.3	Installation of butanes recovery facilities
Pentanes Plus				
Ferrier	-	9.0	+9.0	Recently developed gas reserves
Gold Creek	-	-	-63.2	Decrease in pentanes plus recovery ratio

Plant or Area	Board's Estimate as of Dec. 31, 1965	Board's Estimate as of Dec. 31, 1966	Change	Remarks
Pentanes Plus (Cont'd)				
Harmattan	77.0	74.5	-2.5	Decrease in pentanes plus recovery ratio and decrease in gas reserves
Judy Creek	12.8	15.6	+2.8	Increase in gas reserves
Pembina	29.0	22.0	-7.0	Decrease in gas reserves
Rimbey	60.0	56.4	-3.6	Decrease in gas reserves
Waterton	58.3	63.7	+5.4	Increase in gas reserves
West Whitecourt	54.0	57.2	+3.2	Increase in gas reserves

Details of the Board's current estimate of the established reserves of natural gas liquids are presented in Table III-1. The table does not show individually fields having reserves of less than five million barrels or reserves in confidential pools but the sum of these reserves is included under "Other Reserves" and in the Provincial total.

The Board recognizes that additional natural gas liquids could be recovered from the currently established reserves of gas when it becomes economic to install the required additional gas processing facilities. However, it has not in this report attempted to estimate the additional recoverable reserves nor the particular sources from which they may come.

TABLE 111-1

ESTABLISHED RESERVES OF NATURAL GAS LIQUIDS IN THE PROVINCE OF ALBERTA, DECEMBER 31, 1966

(1)	(2)	(3)	(4)	(5)			(6)			
				LIQUID RECOVERY RATIOS BBL/MMCF (MARKETABLE GAS)			RECOVERABLE LIQUIDS MILLIONS OF BARRELS			
PLANT	FIELD OR AREA	ZONE	REMAINING MARKETABLE RESERVES OF NATURAL GAS - BCF	PROPANE	BUTANES	PENTANES PLUS	PROPANE	BUTANES	PENTANES PLUS	TOTAL
Bonnie Glen	Bonnie Glen	Leduc	566	28.0	21.0	19.0	15.8	11.9	10.8	38.5
	Glen Park	Leduc	8	24.0	18.0	20.0	0.2	0.1	0.2	0.5
	Wizard Lake	Leduc	93	26.0	20.0	20.0	2.4	1.9	1.9	6.2
							18.4	13.9	12.9	45.2
Carson Creek	Carson Creek	Beaverhill Lake	236	23.0	21.0	55.0	5.4	5.0	13.0	23.4
	Carson Creek North	Beaverhill Lake	158	37.0	30.0	25.0	5.8	4.7	4.0	14.5
							11.2	9.7	17.0	37.9
Carstairs(1)	Carstairs	Mississippian	678	14.0	11.0	20.0	9.5	7.5	13.6	30.6
	Crossfield	Rundle A	896	13.0	11.0	20.0	11.6	9.9	17.9	39.4
							21.1	17.4	31.5	70.0
Crossfield(1)	Crossfield	Rundle B and Blairmore	616	11.0	10.0	29.0	6.8	6.2	17.9	30.9
		Wabamun A	821	0.5	0.5	4.0	0.4	0.4	3.3	4.1
		Cardium	11	70.0	60.0	30.0	0.8	0.7	0.3	1.8
							8.0	7.3	21.5	36.8
Edson	Edson	Mississippian	1,663			10.0			16.6	16.6
Ferrier	Ferrier	Cardium	300			30.0			9.0	9.0
Gilby(2)	Gilby	Blairmore and Jurassic	391			10.0			3.9	3.9
		Mississippian	244			15.0			3.7	3.7
									7.6	7.6
---	Gold Creek	Wabamun	400			42.0			16.8	16.8
Golden Spike	Golden Spike	Nisku and Leduc	104	50.0	30.0	20.0	5.2	3.1	2.1	10.4
Harmattan(1)	Harmattan-Elkton	Mississippian	1,021	13.0	10.0	33.0	13.3	10.2	33.7	57.2
	Harmattan East	Mississippian	971	23.0	16.0	42.0	22.3	15.5	40.8	78.6
							35.6	25.7	74.5	135.8

(1)	(2)	(3)	(4)	(5)			(6)			
				LIQUID RECOVERY RATIOS BBL/MMcF (MARKETABLE GAS)			RECOVERABLE LIQUIDS MILLIONS OF BARRELS			
PLANT	FIELD OR AREA	ZONE	REMAINING MARKETABLE RESERVES OF NATURAL GAS - BcF	PROPANE	BUTANES	PENTANES PLUS	PROPANE	BUTANES	PENTANES PLUS	TOTAL
HUSSAR[1]	HUSSAR	COLORADO AND BLAIRMORE	472	10.0	6.0	4.0	4.7	2.8	1.9	9.4
JUDY CREEK	JUDY CREEK	BEAVERHILL LAKE	249	60.0	32.0	16.0	14.9	8.0	4.0	26.9
	SWAN HILLS AND SWAN HILLS SOUTH	BEAVERHILL LAKE	482	70.0	43.0	22.0	33.7	20.7	10.6	65.0
	VIRGINIA HILLS	BEAVERHILL LAKE	51	75.0	42.0	20.0	3.8	2.1	1.0	6.9
							52.4	30.8	15.6	98.8
JUMPING POUND	JUMPING POUND	MISSISSIPPIAN	326			8.0			2.6	2.6
	JUMPING POUND WEST	MISSISSIPPIAN	700			18.0			12.6	12.6
	SARCEE	MISSISSIPPIAN	120			14.0			1.7	1.7
									16.9	16.9
LEDUC-WOODBEND	LEDUC-WOODBEND	NISKU AND LEDUC	388	40.0	20.0	13.0	15.5	7.8	5.0	28.3
LOOKOUT BUTTE	LOOKOUT BUTTE	MISSISSIPPIAN	400	12.0	13.0	50.0	4.8	5.2	20.0	30.0
MINNEHIK-BUCK LAKE	MINNEHIK-BUCK LAKE	MISSISSIPPIAN	387			18.0			7.0	7.0
NEVIS[1]	NEVIS	DEVONIAN	572	6.0	5.0	18.0	3.4	2.9	10.3	16.6
	STETTLER	NISKU AND LEDUC	2	93.0	46.0	18.0	0.2	0.1	-	0.3
	FENN-BIG VALLEY	NISKU AND LEDUC	11	71.0	41.0	17.0	0.8	0.5	0.2	1.5
	HACKETT	BLAIRMORE	46	13.0	11.0	7.0	0.6	0.5	0.3	1.4
	ERSKINE	BLAIRMORE	12	11.0	8.0	6.0	0.1	0.1	0.1	0.3
	RICH	BLAIRMORE	12	14.0	11.0	6.0	0.2	0.1	0.1	0.4
							5.3	4.2	11.0	20.5
OLDS	OLDS	WABAMUN	261	13.0	12.0	53.0	3.4	3.1	13.8	20.3
PEMBINA[3]	PEMBINA	BLAIRMORE	184			8.0	-	-	1.5	1.5
		BELLY RIVER	41			2.0	-	-	0.1	0.1
		CARDIUM	727	35.0	29.0	28.0	25.4	21.1	20.4	66.9
							25.4	21.1	22.0	68.5
PINCHER CREEK	PINCHER CREEK	MISSISSIPPIAN	317	6.0	6.0	23.0	1.9	1.9	7.3	11.1
REDWATER	REDWATER	LEDUC	39	120.0	80.0	40.0	4.7	3.1	1.6	9.4
RIMBEY	HOMEGLEN-RIMBEY	LEDUC	615	18.0	16.0	29.0	11.1	9.8	17.8	38.7
	WESTEROSE	LEDUC	173	30.0	13.0	8.0	5.2	2.2	1.4	8.8
	WESTEROSE SOUTH	LEDUC	953	27.0	19.0	39.0	25.7	18.1	37.2	81.0
							42.0	30.1	56.4	128.5

(1)	(2)	(3)	(4)	(5)			(6)			
				LIQUID RECOVERY RATIOS BBL/MMCF (MARKETABLE GAS)			RECOVERABLE LIQUIDS MILLIONS OF BARRELS			
PLANT	FIELD OR AREA	ZONE	REMAINING MARKETABLE RESERVES OF NATURAL GAS - BCF	PROPANE	BUTANES	PENTANES PLUS	PROPANE	BUTANES	PENTANES PLUS	TOTAL
SYLVAN LAKE(1)	SYLVAN LAKE	BLAIRMORE AND JURASSIC	305			14.0			4.3	4.3
		MISSISSIPPIAN AND LEDUC	120			19.0			2.3	2.3
									6.6	6.6
TURNER VALLEY	TURNER VALLEY	MISSISSIPPIAN	200	14.0		34.0	2.8	-	6.8	9.6
WATERTON	WATERTON	MISSISSIPPIAN	1,142	8.0	9.0	55.0	9.1	10.3	62.8	82.2
		DEVONIAN	134			7.0	-	-	0.9	0.9
							9.1	10.3	63.7	83.1
WILLESDEN GREEN	WILLESDEN GREEN	CARDIUM	85	35.0	25.0	3.0	3.0	2.1	0.3	5.4
WEST WHITECOURT	WINDFALL	LEDUC	477			120.0			57.2	57.2
WIMBORNE	WIMBORNE	LEDUC	229			35.0			8.0	8.0
SUB TOTAL							274.5	199.6	530.6	1004.7
OTHER RESERVES										
	CONFIDENTIAL POOLS						-	-	2.8	2.8
	SMALL FIELDS(4)						3.3	2.3	65.0	70.6
	FIELDS PRESENTLY BEYOND ECONOMIC REACH						-	-	0.9	0.9
	EDMONTON LIQUID GAS PLANT REPROCESSING						10.7	2.9	0.5	14.1
	EMPRESS GAS PLANT REPROCESSING						96.5	51.0	17.0	164.5
TOTAL							385.0	255.8	616.8	1257.6

(1) PROCESSING CARRIED OUT IN TWO SEPARATE PLANTS.

(2) PROCESSING CARRIED OUT IN SIX SEPARATE PLANTS.

(3) PROCESSING CARRIED OUT IN FIVE SEPARATE PLANTS.

(4) INCLUDES ALL FIELDS AND OTHER AREAS WHERE RECOVERABLE LIQUID RESERVES ARE ESTIMATED AT LESS THAN FIVE MILLION BARRELS.

IV THE ESTABLISHED RESERVES OF SULPHUR IN THE PROVINCE OF ALBERTA

The Board estimates the remaining established reserves of sulphur in the Province as of December 31, 1966, to be some 110 million long tons. This represents an increase of some 11 million long tons since December 31, 1965.

The changes in the reserves during the last year are summarized in the following tabulation.

	Millions of Long Tons
Remaining Established Reserves of Sulphur at December 31, 1965	99.1
Increase in Reserves during 1966	12.3
Production during 1966	1.7
Remaining Established Reserves of Sulphur at December 31, 1966	109.7

The most significant changes during 1966 occurred in the plants or areas shown below.

Plant or Area	Board's Estimate as of Dec. 31, 1965 (Millions of Long Tons)	Board's Estimate as of Dec. 31, 1966 (Millions of Long Tons)	Change (Millions of Long Tons)	Remarks
Coleman	2.7	1.2	-1.5	Decrease in gas reserves
Crossfield	15.2	19.8	+4.6	Increase in gas reserves and in recovery efficiency
Crossfield East	11.9	18.4	+6.5	Increase in gas reserves and in recovery efficiency
Pine Creek	5.4	3.0	-2.4	Decrease in gas reserves
Pine North-west	-	1.1	+1.1	Recognition of sulphur reserves

The established reserves of sulphur are defined as those recoverable reserves in fields from which sulphur is currently being recovered or where, in the opinion of the Board, sulphur will be recovered in the future. Table IV-1 is a list of individual fields with established reserves of greater than one million long tons. Reserves in smaller fields or in confidential pools are not listed individually but are included in the Provincial total.

The table has been prepared by applying the appropriate hydrogen sulphide content and recovery efficiency to the remaining established reserves of gas in each pool. Where sulphur is currently being recovered, the recovery efficiency is as specified in the plant approval or, where not specified, it is based upon plant experience. Where sulphur is expected to be produced in the future, the recovery efficiency has been estimated at 90 per cent.

The remaining established reserve of 110 million long tons of sulphur shown in Table IV-1 does not include any allowance for sulphur which will be recovered from the Athabasca oil sands. Some four million long tons of sulphur is expected to be recovered in conjunction with the approved scheme of Great Canadian Oil Sands for the processing of the oil sands in its lease in the Fort McMurray Area.

TABLE IV-1

ESTABLISHED RESERVES OF SULPHUR IN THE PROVINCE OF ALBERTA, DECEMBER 31, 1966

(1)	(2)	(3)	(4)	(5)	(6)	(7)
PLANT	FIELD OR AREA	ZONE	REMAINING RECOVERABLE RAW GAS BcF	HYDROGEN SULPHIDE CONTENT OF RAW GAS PER CENT	RECOVERY EFFICIENCY PER CENT	REMAINING RECOVERABLE SULPHUR 1000 LONG TONS
—	Berland River	Leduc	400	15.4	90	2,085
Bigstone	Bigstone	Leduc	333	12.2	95	1,451
Coleman	Savanna Creek	Mississippian	237	15.0	93	1,243
Crossfield	Crossfield	Rundle B and Blairmore	725	1.0	96	262
		Wabamun A	1,642	33.0	96	19,559
						19,821
Crossfield East	Crossfield East	Wabamun	1,356	38.0	95	18,406
Edson	Edson	Mississippian	1,848	2.6	93	1,680
—	Gold Creek	Wabamun	571	7.0	90	1,353
Harmattan	Harmattan-Elkton	Mississippian	1,201	0.7	95	300
		Leduc	425	49.0	95	7,439
						7,739
Jumping Pound	Jumping Pound	Mississippian	384	3.0	95	411
	Jumping Pound West	Mississippian	875	5.0	95	1,563
	Sarcee	Mississippian	141	5.3	95	267
						2,241
Nevis[(1)]	Nevis	Devonian	673	7.0	93	1,647
	Stettler	Nisku and Leduc	20	3.5	93	24
	Fenn-Big Valley	Nisku and Leduc	73	3.0	93	77
						1,748
Okotoks	Okotoks	Wabamun	335	34.0	95	4,069
Olds	Olds	Wabamun	348	11.0	93	1,339
—	Panther River	Wabamun	160	68.0	90	4,711
		Leduc	214	87.0	90	4,924
						9,635
Pincher Creek	Pincher Creek	Mississippian	423	10.5	90	1,503

(1) PLANT	(2) FIELD OR AREA	(3) ZONE	(4) REMAINING RECOVERABLE RAW GAS BCF	(5) HYDROGEN SULPHIDE CONTENT OF RAW GAS PER CENT	(6) RECOVERY EFFICIENCY PER CENT	(7) REMAINING RECOVERABLE SULPHUR 1000 LONG TONS
—	PINE CREEK	WABAMUN	158	35.0	94	1,955
		LEDUC	114	26.0	94	1,048
						3,008
—	PINE NORTH-WEST	LEDUC	160	20.0	94	1,131
RIMBEY	HOMEGLEN-RIMBEY	LEDUC	724	3.3	90	809
	WESTEROSE	LEDUC	216	1.5	90	110
	WESTEROSE SOUTH	LEDUC	1,121	1.4	90	531
						1,450
—	SIMONETTE	WABAMUN	51	18.0	90	311
		LEDUC	148	16.0	90	801
						1,112
WATERTON	WATERTON	MISSISSIPPIAN	1,757	25.0	96	15,855
		DEVONIAN	168	18.0	96	1,092
						16,947
WEST WHITECOURT	WINDFALL	LEDUC	734	15.6	94	4,047
WIMBORNE	WIMBORNE	LEDUC	327	15.0	93	1,715
SUB-TOTAL						103,718
	CONFIDENTIAL POOLS					173
	OTHER FIELDS(2)					5,548
	FIELDS PRESENTLY BEYOND ECONOMIC REACH					211
TOTAL						109,650

(1) PROCESSING CARRIED OUT IN TWO SEPARATE PLANTS

(2) FIELD AND AREAS HAVING SULPHUR RESERVES OF UNDER 1,000,000 LONG TONS.

V TRENDS IN EXPLORATORY DRILLING AND IN THE GROWTH OF RESERVES OF CRUDE OIL AND GAS IN THE PROVINCE OF ALBERTA

Introduction

The analysis presented in this section relates to the overall growth in reserves of oil and gas, to the anticipated appreciation of currently established reserves and to the estimation of ultimate reserves.

The "trends" section of last year's report included several changes in the methods employed by the Board in analysing oil and gas reserve appreciation. No further changes have been introduced in this report. However, the Board is continuing to give consideration to the elimination of undesirable differences of treatment between oil and gas reserves, and in particular attention is being paid to the feasibility of uniformity of classification of oil and gas reserves.

Method of Analysis

1. Overall Trends

Estimates of overall or long term trends are based on an assessment of average reserve growth experienced over periods of fifteen to twenty years and an examination of the slopes of reserve growth curves.

2. Appreciation of Established Reserves

Generally, estimates of future appreciation of established reserves have been compiled by examining trends in appreciation as a function of years since the discovery year. Appreciation factors have been computed by employing several methods of approach, including relating subsequent reserve growth for reserves discovered in a particular discovery year to the initial estimates and aggregating the appreciation experienced by all reserves over successive years. To obtain estimates of average appreciation, the appreciation factors have been smoothed by various procedures and curves constructed to eliminate erratic elements. It should be emphasized that the wide variation in the growth pattern of reserves, particularly with respect to oil, limits the suitability of application of the average appreciation curves computed for any individual case.

3. Ultimate Reserves

There are two general methods commonly used in estimating the ultimate reserves of gas or crude oil in an area: the geological or volume of sediments method and the statistical method.

In the geological method, an estimate is made of the volume of sediments favourable to the accumulation of oil or gas, to which an estimated ultimate reserve of oil or gas per unit of sediment is applied. The reserve per unit of sediment is based on evidence obtained from areas that are geologically similar, but have experienced substantially more extensive exploration than the area under investigation. The method is useful primarily in estimating ultimate reserves for a relatively large area. Its reliability depends on the validity of the assumption that evidence related to one area may be applied to another.

The statistical method concerns the numerical analysis of reserve data in a particular area. Frequently this approach involves the determination of reserves discovered per exploratory well or footage drilled.

The Board has also given consideration to the direct extrapolation of the historical trend in the growth of established reserves.

Exploratory Wells

The Board employs the Lahee system of well classification utilized by the American Association of Petroleum Geologists and by the Alberta Society of Petroleum Geologists. However, the Board excludes outpost wells from its definition of exploratory wells. The category of total exploratory wells as used in this report comprises

(a) new field wildcats,

(b) new pool wildcats,

(c) shallower pool tests, and

(d) deeper pool tests.

Totals of the exploratory wells drilled each year are presented graphically in Figure V-1 for the period 1948 through 1966. Cumulative exploratory wells drilled to the end of 1966 total 8,254. As discussed in several earlier reports, the Board believes that an ultimate density of one exploratory well per ten square miles of prospective area is reasonable, and consequently estimates that about 20,000 exploratory wells will eventually be drilled in Alberta.

Trends in the Growth of Crude Oil Reserves

Table V-1 lists for each year from 1946 the number of exploratory wells drilled, the significant oil pools discovered (essentially those of reserves of over five million barrels) and the December 31, 1966, estimate of the initial proved reserves discovered. The number of exploratory wells and the reserves are given both for the year and as cumulative figures to the year end. The reserve figures correspond to those presented in column 4 of Table I-1 (Section I).

Figure V-2 is a graphical presentation of the December 31, 1966, reserve data and the corresponding Board estimates of reserves. The spread on Figure V-2 between any two points for a particular year represents the change during the period in the Board estimates of reserves discovered to the end of that year. This change is due to re-appraisal of the reserves.

In previous reports, the Board has adopted a long term growth rate in initial proved reserves of 370 million barrels per year. Over the past three years the actual growth has been at a rate considerably above this long term trend, averaging some 1,171 million barrels per year. Over the past 15 years growth has averaged some 500 million barrels per year. Much of the recent growth in reserves is attributable to the application of enhanced recovery methods and to the more intensive re-appraisal of the reserves in certain pools following the first annual reserve hearing in 1965.

The Board believes the trend exhibited by this data provides sufficient evidence to warrant a revision in the long term rate. Accordingly, the Board has re-examined the growth in reserves over the past 15 to 20 years and now concludes that an appropriate long term rate would be some 450 million barrels per year, as illustrated by the red line in Figure V-2.

The exploratory drilling and proved initial crude oil reserves data of Table V-1 are summarized by year of discovery in Table V-2. In addition, the table shows the proved initial crude oil reserves estimated by the Board as of December 31, 1966, per exploratory well drilled for each year and on a cumulative basis. The trend in the growth of oil reserves per exploratory well is presented graphically as the solid lines in Figure V-4.

Figure V-4 illustrates the erratic year by year record of reserves growth per exploratory well and the more consistent trend in the cumulative figures. The fact that recently discovered reserves are expected to undergo significant appreciation both through development and the institution of enhanced recovery methods must be considered in any interpretation of apparent trends.

In order to obtain a measure of the appreciation which may be expected in recently discovered reserves, an analysis was made of the year by year appreciation of 99 individual pools, containing some 94 per cent of the initial proved reserves in the Province, grouped by year of discovery. The appreciation was measured by the ratio of the year end reserve estimate at any time to the reserve as estimated at the end of the discovery year. The results of the analysis are presented in Figure V-3 as separate lines for each year-of-discovery group. The appreciation lines for the different groups of pools exhibit wide variation, as is to be expected. The 1955 and 1956 pools have appreciated only modestly while the 1954, 1957, 1958 and 1960 pools have undergone tremendous growth. This degree of variation is due in part to the nature of the pools themselves, but more to the vagaries of timing of their discovery, and in particular to whether they were discovered near the beginning or near the end of the discovery year. Clearly pools discovered near the end of the discovery year would undergo much greater relative appreciation in future years. An average appreciation trend has been constructed from values of successive year appreciation factors. The factors were defined as the ratio of the sum of reserves for a certain year after discovery to the sum of corresponding values in the preceding year. The factors were adjusted for anomalous elements and smoothed to derive the cruve. The smooth curve is shown as the red line labelled "Normal Appreciation" on Figure V-3. The line indicates that "normally" a reserve might be expected to appreciate six-fold after three years, 10-fold after nine years, and some 11-fold after 15 years. While actual cases are bound to vary widely from the normal curve, as for example do the groups of pools discovered in 1955, 1956, 1958 and 1960, the Board believes that, used with understanding and caution, the normal appreciation curve may be helpful in assessing trends in the growth of reserves.

To facilitate the use of the normal appreciation curve, a second scale is shown on the right-hand side of Figure V-3. This scale permits the "normal appreciation factor" to be read directly from the normal appreciation line. The factor is defined as the number by which a reserve estimate made a given number of years after the discovery year should be multiplied to obtain an estimate of the fully appreciated reserve.

The appreciation factor is applied in Table V-3 to the pools grouped by year of discovery. Column 6 of this table gives the annual appreciated initial proved reserves determined by multiplying the December 31, 1966, estimate for the various year groups by the appropriate normal appreciation factor. In column 7, the appreciated initial reserve figures given in column 6 are cumulated. The table also gives the appreciated reserves per exploratory well on both an annual and a cumulative basis. These latter figures are plotted as the dashed lines in Figure V-4 where they give some measure of the significance of "normal" reserve appreciation on the trend of the annual and cumulative discoveries per exploratory well.

These figures suggest that the initial proved reserves for currently existing pools, estimated as of December 31, 1966, at 9.0 billion barrels, may be expected to appreciate to some 13.3 billion barrels by the time all such pools are fully developed and enhanced recovery operations implemented where appropriate.

It should be noted that, since the trends in reserve growth and appreciation are both based upon the historical record, they represent a technology changing at the rate of the recent past. When applied to the future, they indirectly incorporate the assumption of a similarly changing technology. Also, the estimates assume the normal appreciation derived from the average of several year groups. This will probably provide reasonable cumulative figures, but the indicated pattern of growth for reserves discovered in recent years could be significantly in error.

Ultimate Reserves

The Board mas made several estimates of the ultimate initial proved reserves of conventional crude oil in Alberta. It has projected the long term growth rate of 430 million barrels per year on a declining basis over some 30 years and projected the cumulative appreciated reserves discovered per exploratory well, also on a declining basis, to a total of some 20,000 exploratory wells. In addition, the Board's Geological Department has made estimates based upon the volume of favourable sediments and average accumulation factors. None of these approaches provides a reliable or definitive estimate but they suggest that the ultimate initial proved reserves of Alberta will be of the order of 18 billion barrels.

Trends in the Growth of Gas Reserves

The currently estimated initial marketable gas reserves, presented in Section II, are tabulated in Table V-4 by year of discovery. In this table, the fields, pools or areas having reserves of 10 billion cubic feet or over are listed by year of discovery, together with the annual number of exploratory wells drilled and the Board's present estimate of the initial marketable reserves discovered in each year. The number of exploratory wells and the reserves are given both for the year and as cumulative figures to year end.

Figure V-5 is a graphical presentation of these data and of similar data for previous Board reserve estimates. As indicated by the dashed line on Figure V-5, the long term growth of initial marketable gas reserves due to new discoveries and to appreciation of known reserves has been about 2.5 trillion cubic feet per year. The spread on Figure V-5 between any two estimates for a particular year represents the amount of appreciation of reserves discovered to the end of that year that has taken place during the period between the estimates.

The actual growth in initial gas reserves has been 1.4 trillion cubic feet over the past year, has averaged 2.3 trillion cubic feet per year over the past five years and 2.5 trillion cubic feet per year over the past ten years, the latter being the same as the average rate of growth over the long term trend shown in Figure V-5.

The exploratory drilling and initial gas reserve data of Table V-4 are summarized by year of discovery in Table V-5. In addition, the table shows the reserves as estimated at December 31, 1966, per exploratory well drilled calculated on an annual and a cumulative basis. The reserves per exploratory well drilled are also presented graphically on an annual and cumulative basis as part of Figure V-7.

As in previous reports, the appreciation of gas reserves in the years following discovery has been analysed in order to estimate the possible further appreciation of existing discoveries. The method used consists of determining for reserves discovered in various years the ratio of the estimated initial gas reserves for successive years following discovery to the estimated initial reserves at the end of the discovery year. Data for discoveries made in each of the years 1951 to 1965 inclusive are plotted in Figure V-6. A smoothed reserve-weighted appreciation curve was derived and is shown in red in the figure. The representative appreciation curve tends to level off at a ratio of 5.2 after approximately ten years, at which time it is assumed that the average gas reserve is fully appreciated. This compares to the ratio of about 5.0 after ten years, projected in last year's report.

As in the case of the appreciation of oil reserves shown in Figure V-3, a second scale is included on the right-hand side of Figure V-6. This scale permits the "normal appreciation factor" to be read directly from the normal appreciation curve.

The current gas reserve estimate has been adjusted to reflect the future appreciation indicated by the smoothed curve shown in Figure V-6. The appreciation factors used and the adjusted reserves are presented in Table V-6. Initial gas reserves in existing pools, now estimated to total almost 44.4 trillion cubic feet, are expected to further appreciate eventually by over three trillion cubic feet to some 47.5 trillion cubic feet. Table V-6 also shows the fully appreciated gas reserves per exploratory well on both an annual and cumulative basis. These data are also presented graphically in Figure V-7.

Tables V-5 and V-6 and Figure V-7 show that the gas reserves discovered per exploratory well drilled continued to decline, as discussed in the Board's last report. However, it should be emphasized again that the main purpose of this analysis is to establish a long term trend in the growth of gas reserves, and the data or trend of the data for any particular year or limited period require careful interpretation.

Ultimate Reserves

As in the case of oil, the Board has made several estimates of the ultimate initial reserves of gas in the Province. It has projected the long term growth rate of 2.5 trillion cubic feet per year on a declining basis over a period of some 30 years and has also projected the cumulative appreciated reserves discovered per exploratory well drilled, on a declining basis, to a total of some 20,000 exploratory wells. In addition, the Board's Geological Department has made estimates based upon the volume of favourable sediments and average accumulation factors. The Board has also received considerable evidence from industry as to the ultimate gas reserves in the Province. The most recent industry estimates presented to the Board were discussed in detail in Appendix B of OGCB Report 64-11(1). On the basis of the estimates available from industry and its own studies, the Board continues to believe that it is reasonable to expect the ultimate gas reserves for the Province to approximate 100 trillion cubic feet.

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(1) Report on the Applications of Trans-Canada Pipe Lines Limited and Alberta and Southern Gas Co. Ltd. under The Gas Resources Preservation Act, 1956. November, 1964.

TABLE V-1

DETAILED STATISTICS OF EXPLORATORY DRILLING AND DISCOVERY OF PROVED RESERVES OF CRUDE OIL IN ALBERTA

	NUMBER OF EXPLORATORY WELLS DRILLED			INITIAL PROVED RESERVES AS OF DECEMBER 31, 1966	
YEAR	ANNUAL	CUMULATIVE	SIGNIFICANT OIL POOLS DISCOVERED	ANNUAL MM STBBL	CUMULATIVE MM STBBL
Prior to 1931			Turner Valley Rundle, Wainwright Wainwright, and Two Small Pools	145	145
1931 to 1940			Lloydminster Sparky, Del Bonita Rundle, and One Small Pool	25	170
1941 to 1946		484 (E)	Eight Small Pools	7	177
1947	71	555	Leduc-Woodbend D-2 A, Leduc-Woodbend D-3 A	300	477
1948	124	679	Bantry Mannville A, Leduc-Woodbend D-3 B, Redwater D-3, and Three Small Pools	813	1,290
1949	212	891	Excelsior D-2, Golden Spike D-3 A, Joarcam Viking, Stettler D-2 A, Stettler D-3 A, and Five Small Pools	405	1,695
1950	210	1,101	Acheson D-3 A, Duhamel D-3 B, Fenn Big Valley D-2 A, Leduc-Woodbend D-2 B, and Twelve Small Pools	377	2,072
1951	346	1,447	Clive D-2 A, Duhamel D-2 A, Glen Park D-3 A, New Norway D-2, Wizard Lake D-3 A, and Seventeen Small Pools	309	2,381
1952	442	1,889	Bonnie Glen D-3 A, Cessford Basal Colorado A, Clive D-3 A, Malmo D-2, Malmo D-3, Sturgeon Lake D-3, West Drumheller D-2 A, Westerose D-3, and Twenty-Two Small Pools	656	3,037
1953	338	2,227	Erskine D-3, Fairydell-Bon Accord D-3 A, Gilby Viking A, Homeglen-Rimbey D-3, Joffre Viking, Pembina Cardium, St. Albert D-3 B, Sturgeon Lake South D-3, and Sixteen Small Pools	1,960	4,997
1954	368	2,595	Fenn D-3 F, Garrington Cardium A & B, Glenevis Banff, Pembina Belly River I, Willesden Green Cardium A, and Sixteen Small Pools	160	5,157
1955	351	2,946	Harmattan-Elkton Rundle C, Sundre Rundle A, Westward Ho Rundle A, and Ten Small Pools	105	5,262
1956	373	3,319	Bellshill Lake Blairmore, Crossfield Cardium A, Joffre D-2, Medicine River Jurassic A, Red Earth Granite Wash C, St. Albert. Big Lake D-3 A, Wimborne D-3 A, and Thirteen Small Pools	105	5,367

	NUMBER OF EXPLORATORY WELLS DRILLED			INITIAL PROVED RESERVES AS OF DECEMBER 31, 1966	
YEAR	ANNUAL	CUMULATIVE	SIGNIFICANT OIL POOLS DISCOVERED	ANNUAL MM STBBL	CUMULATIVE MM STBBL
1957	452	3,771	Harmattan East Rundle, Hussar Ostracod A, Innisfail D-3, Kaybob Beaverhill Lake A, Swan Hills Beaverhill Lake A & B, Virginia Hills Beaverhill Lake, and Sixteen Small Pools	1,218	6,585
1958	428	4,199	Carson Creek North Beaverhill Lake B, Gilby Jurassic B, Pembina Keystone Belly River B, Red Earth Granite Wash A, Simonette D-3, and Sixteen Small Pools	200	6,785
1959	438	4,637	Bigoray Ostracod, Carson Creek North Beaverhill Lake A, Judy Creek Beaverhill Lake A, Judy Creek Beaverhill Lake B, Pembina Keystone Belly River C, Swan Hills South Beaverhill Lake A & B, Swan Hills Beaverhill Lake C, and Twenty-Three Small Pools	1,083	7,868
1960	412	5,049	Morinville D-3 B, and Nineteen Small Pools	20	7,888
1961	395	5,444	Buffalo Lake D-3, Fenn West D-2 A, Medicine River Jurassic C, and Twenty-Seven Small Pools	32	7,920
1962	433	5,877	Cyn-Pem Cardium A, Drumheller D-2 B, Freeman Beaverhill Lake A, Kaybob South Triassic, Medicine River Jurassic D, Pembina Keystone Belly River M, Snipe Lake Beaverhill Lake, Sylvan Lake Pekisko B, and Twenty-Nine Small Pools	152	8,072
1963	424	6,301	Bantry Mannville C, Goose River Beaverhill Lake A, Taber South Mannville A, Utikuma Lake Keg River Sandstone, and Fifty-Three Small Pools	88	8,160
1964	581	6,882	Mitsue Gilwood A, and Forty-Eight Small Pools	185	8,345
1965	719	7,601	Nipisi Gilwood A, Olds Wabamun A, Rainbow Keg River A, Rainbow Keg River B, and Sixty-Six Small Pools	432	8,777
1966	653	8,254	Rainbow Keg River F, and Twenty-Four Small Pools	210	8,987

(E) Estimated

TABLE V-2

SUMMARY OF STATISTICS OF EXPLORATORY DRILLING AND GROWTH OF PROVED RESERVES OF CRUDE OIL IN ALBERTA

(1)	(2)	(3)	(4)	(5)	(6)	(7)
DISCOVERY YEAR	NUMBER OF EXPLORATORY WELLS DRILLED		INITIAL CRUDE OIL RESERVES AS OF DECEMBER 31, 1966 MILLIONS OF STBBL		INITAL CRUDE OIL RESERVES AS OF DECEMBER 31, 1966 PER EXPLORATORY WELL MILLIONS OF STBBL/WELL	
	ANNUAL	CUMULATIVE	ANNUAL	CUMULATIVE	ANNUAL	CUMULATIVE
PRIOR TO 1947		484 (E)		177		0.37
1947	71	555	300	477	4.23	0.86
1948	124	679	813	1,290	6.56	1.90
1949	212	891	405	1,695	1.91	1.90
1950	210	1,101	377	2,072	1.80	1.88
1951	346	1,447	309	2,381	0.89	1.65
1952	442	1,889	656	3,037	1.48	1.61
1953	338	2,227	1,960	4,997	5.80	2.24
1954	368	2,595	160	5,157	0.43	1.99
1955	351	2,946	105	5,262	0.30	1.79
1956	373	3,319	105	5,367	0.28	1.62
1957	452	3,771	1,218	6,585	2.69	1.75
1958	428	4,199	200	6,785	0.47	1.62
1959	438	4,637	1,083	7,868	2.47	1.70
1960	412	5,049	20	7,888	0.05	1.56
1961	395	5,444	32	7,920	0.08	1.45
1962	433	5,877	152	8,072	0.35	1.37
1963	424	6,301	88	8,160	0.21	1.30
1964	581	6,882	185	8,345	0.32	1.21
1965	719	7,601	432	8,777	0.60	1.15
1966	653	8,254	210	8,987	0.32	1.09

(E) ESTIMATED

TABLE V-3

ANTICIPATED APPRECIATION OF PROVED RESERVES OF CRUDE OIL AND CORRESPONDING ADJUSTED PROVED RESERVES PER EXPLORATORY WELL

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
DISCOVERY YEAR	INITIAL PROVED RESERVES AS OF DECEMBER 31, 1966 MILLIONS OF STBBL		PERIOD FROM END OF DISCOVERY YEAR TO DECEMBER 31, 1966 YEARS	NORMAL APPRECIATION FACTOR*	APPRECIATED INITIAL PROVED RESERVES MILLIONS OF STBBL		APPRECIATED INITIAL CRUDE OIL RESERVES PER EXPLORATORY WELL MILLIONS OF STBBL	
	ANNUAL	CUMULATIVE			ANNUAL	CUMULATIVE	ANNUAL	CUMULATIVE
Prior to 1950		1,695				1,695		1.90
1950	377	2,072	16	1.00	377	2,072	1.80	1.88
1951	309	2,381	15	1.00	309	2,381	0.89	1.65
1952	656	3,037	14	1.01	663	3,044	1.50	1.61
1953	1,960	4,997	13	1.02	1,999	5,043	5.91	2.26
1954	160	5,157	12	1.03	165	5,208	0.45	2.01
1955	105	5,262	11	1.04	109	5,317	0.31	1.80
1956	105	5,367	10	1.06	111	5,428	0.30	1.64
1957	1,218	6,585	9	1.10	1,340	6,768	2.96	1.79
1958	200	6,785	8	1.15	230	6,998	0.54	1.67
1959	1,083	7,868	7	1.20	1,300	8,298	2.97	1.79
1960	20	7,888	6	1.28	26	8,324	0.06	1.65
1961	32	7,920	5	1.36	44	8,368	0.11	1.54
1962	152	8,072	4	1.50	228	8,596	0.53	1.46
1963	88	8,160	3	1.76	155	8,751	0.37	1.39
1964	185	8,345	2	2.38	440	9,191	0.76	1.34
1965	432	8,777	1	4.20	1,814	11,005	2.52	1.45
1966	210	8,987	0	11.00	2,310	13,315	3.54	1.61

*From Figure V-3

TABLE V-4

DETAILED STATISTICS OF EXPLORATORY DRILLING AND DISCOVERY OF RESERVES OF GAS IN ALBERTA

	NUMBER OF EXPLORATORY WELLS DRILLED			INITIAL MARKETABLE RESERVES AS OF DECEMBER 31, 1966	
YEAR	ANNUAL	CUMULATIVE	MAJOR GAS FIELDS, POOLS AND AREAS DISCOVERED	ANNUAL BcF	CUMULATIVE BcF
Prior to 1931			Bow Island, Brooks, Foremost, Medicine Hat (Medicine Hat, Bow Island), Pouce Coupe (Peace River, Cadomin), Turner Valley (Mississippian Associated), Viking-Kinsella (Viking), and Wainwright (Viking, Blairmore).	3,151	3,151
1931 to 1940			Aden (Mississippian), Bantry (Milk River, Bow Island, Mannville, Mannville Associated), Lloydminster, Princess (Second White Specks, Basal Colorado, Basal Blairmore, Jefferson), Turner Valley (Mississippian Solution), Wildmere, and Six Small Pools.	685	3,836
1941 to 1945			Alderson (Milk River), Black Butte (Bow Island, Sunburst-Ellis), Jenner (Blairmore), Jumping Pound, Oyen (Viking), and Five Small Pools.	714	4,550
1946		484 (E)	Beaverhill Lake-Fort Saskatchewan (Viking), Lindbergh, Pendant D'Oreille (Bow Island), Provost (Viking, Blairmore), and One Small Pool.	1,342	5,892
1947	71	555	Fairydell-Bon Accord (Viking, Blairmore), Leduc-Woodbend (Viking, Blairmore, Nisku, Leduc), Manyberries, Medicine Hat (Sawtooth), Smith Coulee, and Six Small Pools.	795	6,687
1948	124	679	Morinville, Pincher Creek, Redwater (Viking and Leduc), and Six Small Pools.	729	7,416

TABLE V-4 (CONTINUED)

YEAR	NUMBER OF EXPLORATORY WELLS DRILLED		MAJOR GAS FIELDS, POOLS AND AREAS DISCOVERED	INITIAL MARKETABLE RESERVES AS OF DECEMBER 31, 1966	
	ANNUAL	CUMULATIVE		ANNUAL BCF	CUMULATIVE BCF
1949	212	891	Acheson East, Campbell-Namao, Cessford (Viking, Basal Colorado, Basal Blairmore), Excelsior, Golden Spike (Blairmore, Wabamun, Leduc), Inland, Joarcam, Kessler, Plain Lake, Rochester, Tweedie, Westlock (Viking), Willingdon (Mannville), and Thirty-seven Small Pools.	2,213	9,629
1950	210	1,101	Acheson (Basal Blairmore, Leduc), Alderson (Bow Island), Countess (Bow Island), Drumheller (Blairmore), Fenn-Big Valley, Leahurst, Sibbald (Viking, Basal Colorado), Whitelaw (Gething, Triassic), and Twenty-six Small Pools.	378	10,007
1951	346	1,447	Atlee-Buffalo (Bow Island), Bashaw (Leduc Associated), Belloy (Gething, Mississippian), Bonnie Glen (Leduc Associated, Leduc Solution), Clive (Nisku, Leduc), Countess (Basal Colorado), Etzikom (Bow Island), Figure Lake (Blairmore, Nisku), Glenevis, Hamelin Creek, Majeau Lake, Millet, Okotoks, Tangent (Gething, Triassic), Viking-Kinsella (Blairmore, Devonian), Wizard Lake (Blairmore, Leduc Solution), and Thirty-three Small Pools.	1,644	11,651
1952	442	1,889	Alix, Bawlf (Viking), Bindloss (Viking), Bittern Lake, Chigwell, Comrey (Bow Island), Eaglesham (Mississippian), Erskine (Blairmore, Leduc), Ghost Pine (Mississippian), Gordondale (Paddy), Hackett, Hairy Hill (Blairmore), Hamilton Lake (Viking), Hercules (Viking, Blairmore), Holmberg, Hussar (Blairmore), Malmo, Minnehik-Buck Lake, Nevis (Blairmore, Devonian), Olds, Rycroft, St. Albert-Big Lake, Westerose, Wildunn Creek, and Forty-four Small Pools.	3,363	15,014
1953	328	2,227	Atlee-Buffalo (Basal Blairmore), Craigend, Donalda (Viking), Dyberg (Blairmore), Enchant (Bow Island, Basal Blairmore), Eyremore, Flatbush, Gilby		

TABLE V-4 (CONTINUED)

YEAR	NUMBER OF EXPLORATORY WELLS DRILLED		MAJOR GAS FIELDS, POOLS AND AREAS DISCOVERED	INITIAL MARKETABLE RESERVES AS OF DECEMBER 31, 1966	
	ANNUAL	CUMULATIVE		ANNUAL Bcf	CUMULATIVE Bcf
1953 (cont'd)			(Jurassic), Gordondale (Gething), Homeglen-Rimbey, Kneller, Parkland Northeast, Pembina (Cardium Solution), Pouce Coupe South (Peace River, Triassic), Rich, Sedalia, Sturgeon Lake South (Gething, Leduc), Sturgeon Lake South General Area (Gething), Sylvan Lake (Blairmore, Mississippian), Three Hills Creek (Mississippian), Usona, Wayne-Rosedale (Viking, Blairmore), Westerose South (Leduc), Wood River, and Twenty-nine Small Pools.	4,652	19,666
1954	368	2,595	Alexander, Bindloss (Basal Blairmore), Braeburn (Triassic, Permo-Penn), Countess (Blairmore), Crossfield (Wabamun), Garrington (Leduc), Ghost Pine (Blairmore), Gilby (Basal Blairmore, Pekisko), Harmattan-Elkton (Mississippian Associated), Holburn (Blairmore), Hussar (Viking), Medicine River (Blairmore), Pembina (Belly River), Saddle Hills (Peace River), Sarcee, Savanna Creek, Turin (Bow Island, Basal Blairmore), Willesden Green (Cardium Solution), Wimborne (Leduc), and Twenty-two Small Pools.	3,803	23,469
1955	351	2,946	Alderson (Basal Colorado), Carbon (Blairmore), Chinook Ridge (Cadotte, Notikewin), Ferrier (Viking), Harmattan-Elkton (Mississippian Solution), Knappen, Lone Pine Creek (Wabamun), Pakowki Lake, Red Willow (Viking), Richdale, Seiu Lake (Blairmore), Sundre (Mississippian Associated and Solution), Windfall (Viking, Leduc), Wintering Hills (Viking, Blairmore), and Twenty-eight Small Pools.	1,244	24,713

TABLE V-4 (CONTINUED)

YEAR	NUMBER OF EXPLORATORY WELLS DRILLED		MAJOR GAS FIELDS, POOLS AND AREAS DISCOVERED	INITIAL MARKETABLE RESERVES AS OF DECEMBER 31, 1966	
	ANNUAL	CUMULATIVE		ANNUAL BCF	CUMULATIVE BCF
1956	373	3,319	Alderson (Second White Specks), Carstairs (Basal Blairmore), Crossfield (Cardium, Mississippian), Connorsville, Esther (Viking), Ferrier (Cardium), Goodwin Lake, Harmattan East (Mississippian Associated), Hussar (Basal Colorado), Innisfail (Mississippian), Knopcik, Mazeppa, Medicine River (Jurassic Solution), Mountain Park, Normandville (Mississippian), Paddle River (Jurassic, Mississippian), Pembina (Mississippian), Pine Creek (Wabamun), Standard, Two Creek, Vulcan (Blairmore), Waterton (Mississippian), West Prairie, Willesden Green (Basal Blairmore), and Forty-six Small Pools.	5,107	29,820
1957	452	3,771	Antelope (Viking, Banff), Blueridge, Caroline (Viking, Blairmore), Carson Creek, Chisholm, Crossfield (Basal Blairmore), Esther (Banff), Faust South, Fox Creek (Viking, Gething), Harmattan East (Mississippian Solution), Harmattan-Elkton (Mississippian Non-Associated), Innisfail (Leduc), Joffre (Basal Blairmore), Kaybob (Notikewin, Cadomin, Beaverhill Lake), Lambert Creek, Lovett River (Rundle), Pembina (Blairmore, Jurassic), Pine Creek (Leduc), Saddle Hills (Permo-Penn), Sarcee West (Kootenay), Stolberg, Sundre (Blairmore), Swan Hills (Beaverhill Lake Solution), Virginia Hills (Beaverhill Lake Solution), Willesden Green (Belly River) and Twenty-seven Small Pools.	2,393	32,213

TABLE V-4 (CONTINUED)

YEAR	NUMBER OF EXPLORATORY WELLS DRILLED		MAJOR GAS FIELDS, POOLS AND AREAS DISCOVERED	INITIAL MARKETABLE RESERVES AS OF DECEMBER 31, 1966	
	ANNUAL	CUMULATIVE		ANNUAL BCF	CUMULATIVE BCF
1958	428	4,199	BERLAND RIVER, BERLAND RIVER WEST, BOUNDARY LAKE SOUTH (MISSISSIPPIAN), BRUCE (VIKING), CARSON CREEK NORTH, CARSTAIRS (MISSISSIPPIAN), GILBY (JURASSIC SOLUTION), GREENCOURT (JURASSIC DETRITAL), KAYBOB SOUTH (NISKU), KILLAM NORTH (BASAL BLAIRMORE), PENHOLD, POUCE COUPE SOUTH (GETHING), PREVO (MISSISSIPPIAN), SEDGEWICK (BLAIRMORE), SIMONETTE (LEDUC SOLUTION), STEEP CREEK (PERMO-PENN), WATERTON (DEVONIAN), WILDCAT HILLS (MISSISSIPPIAN), AND THIRTY-FIVE SMALL POOLS.	2,564	34,777
1959	438	4,637	BAPTISTE (WABAMUN), BIGORAY (BLAIRMORE, MISSISSIPPIAN), BIGSTONE (DUNVEGAN), BRAZEAU RIVER, BURNT TIMBER, CAROLINE (MISSISSIPPIAN), JUDY CREEK (VIKING, BEAVERHILL LAKE), LOOKOUT BUTTE (MISSISSIPPIAN), LOVETT RIVER (BLAIRMORE), MEDICINE RIVER (BLAIRMORE SOLUTION, JURASSIC ASSOCIATED AND NON-ASSOCIATED, MISSISSIPPIAN SOLUTION), RETLAW (BASAL BLAIRMORE), SIMONETTE (WABAMUN), SWAN HILLS SOUTH (BEAVERHILL LAKE SOLUTION), WASKAHIGAN, WORSLEY AND TWENTY-TWO SMALL POOLS.	2,016	26,793
1960	412	5,049	BIGSTONE (GETHING, LEDUC), BLACK BUTTE (BASAL COLORADO), BROWN CREEK, CALAIS (CADOMIN), CROSSFIELD EAST (MISSISSIPPIAN), JARROW (MANNVILLE), JUDY CREEK SOUTH, KAYBOB (GETHING), KAYBOB SOUTH (VIKING), LONG COULEE, MOOSE MOUNTAIN, NORDEGG, REDLAND (BLAIRMORE), ROWLEY (MISSISSIPPIAN), SIMONETTE (CADOMIN), STURGEON LAKE (GETHING), SYLVAN LAKE (MISSISSIPPIAN SOLUTION), VULCAN (MISSISSIPPIAN), WILDHORSE CREEK, WILSON CREEK (PEKISKO) AND FORTY SMALL POOLS.	946	37,739

TABLE V-4 (CONTINUED)

YEAR	NUMBER OF EXPLORATORY WELLS DRILLED ANNUAL	CUMULATIVE	MAJOR GAS FIELDS, POOLS AND AREAS DISCOVERED	INITIAL MARKETABLE RESERVES AS OF DECEMBER 31, 1966 ANNUAL BcF	CUMULATIVE BcF
1961	395	5,444	Bellis (Nisku), Benjamin Creek (Mississippian), Craigend (Grosmont), Crossfield East (Wabamun), Greencourt (Mississippian Associated), Harmattan-Elkton (Leduc), Jumping Pound West, Kaybob South (Cadomin, Beaverhill Lake), Marten Hills (Wabiskaw, Wabamun), Pendant d'Oreille (Mannville), Plover Lake, Rowley (Mannville), Sunnynook (Blairmore), Sylvan Lake (Leduc Associated), Twining North (Mississippian), Verger (Basal Mannville), Wilson Creek (Banff), and Twenty-five Small Pools.	2,957	40,696
1962	433	5,877	Bashaw (Blairmore), Edson (Mississippian), Equity (Mississippian), Hunter Valley, Kaybob South (Triassic), Niton (Cadomin), Strathmore, Sylvan Lake (Jurassic), Virginia Hills (Permian), and Twenty-nine Small Pools.	2,014	42,710
1963	424	6,301	Edson (Gething), Medicine River (Mississippian Associated and Non-Associated), Pine North-west (Leduc), Swalwell (Mississippian), Taber South (Bow Island), Thorhild (Mannville), and Thirty Small Pools	369	43,079
1964	581	6,882	Calais (Gething), Calling Lake (Nisku), Gold Creek (Wabamun), Lone Pine Creek (Leduc), Marsh Head Creek, Mitsue, Winnifred (Bow Island), and Twenty-three Small Pools.	798	43,877
1965	719	7,601	Little Bow (Glauconitic), Marlboro, Nipisi, Obed (Nisku), Rainbow (Keg River), and Thirty-seven Small Pools.	437	44,314
1966	653	8,254	Obed (Blairmore), and Twelve Small Pools.	74	44,388

(E) Estimated.

TABLE V-5

SUMMARY OF STATISTICS OF EXPLORATORY DRILLING AND GROWTH OF RESERVES OF GAS IN ALBERTA

(1)	(2)	(3)	(4)	(5)	(6)	(7)
	NUMBER OF EXPLORATORY WELLS DRILLED		INITIAL MARKETABLE GAS RESERVES AS OF DECEMBER 31, 1966 BILLIONS OF CUBIC FEET		INITIAL MARKETABLE GAS RESERVE AS OF DECEMBER 31, 1966 PER EXPLORATORY WELL BCF/WELL	
DISCOVERY YEAR	ANNUAL	CUMULATIVE	ANNUAL	CUMULATIVE	ANNUAL	CUMULATIVE
PRIOR TO 1947		484 (E)	5,892	5,892		
1947	71	555	795	6,687	11.2	12.0
1948	124	679	729	7,416	5.9	10.9
1949	212	891	2,213	9,629	10.4	10.8
1950	210	1,101	378	10,007	1.8	9.1
1951	346	1,447	1,644	11,651	4.8	8.1
1952	442	1,889	3,363	15,014	7.6	7.9
1953	338	2,227	4,652	19,666	13.8	8.8
1954	368	2,595	3,803	23,469	10.3	9.0
1955	351	2,946	1,244	24,713	3.5	8.4
1956	373	3,319	5,107	29,820	13.7	9.0
1957	452	3,771	2,393	32,213	5.3	8.5
1958	428	4,199	2,564	34,777	6.0	8.3
1959	438	4,637	2,016	36,793	4.6	7.9
1960	412	5,049	946	37,739	2.3	7.5
1961	395	5,444	2,957	40,696	7.5	7.5
1962	433	5,877	2,014	42,710	4.7	7.3
1963	424	6,301	369	43,079	0.9	6.8
1964	581	6,882	798	43,877	1.4	6.4
1965	719	7,601	437	44,314	0.6	5.8
1966	653	8,254	74	44,388	0.1	5.4

(E) ESTIMATED

TABLE V-6

ANTICIPATED APPRECIATION OF RESERVES OF GAS AND CORRESPONDING APPRECIATED RESERVES PER EXPLORATORY WELL

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	INITIAL MARKETABLE GAS RESERVES AS OF DECEMBER 31, 1966 BCF		PERIOD FROM END OF DISCOVERY YEAR TO DECEMBER 31, 1966	NORMAL APPRECIATION FACTOR*	APPRECIATED INITIAL MARKETABLE GAS RESERVES BCF		APPRECIATED INITIAL MARKETABLE GAS RESERVES PER EXPLORATORY WELL BCF/WELL	
DISCOVERY YEAR	ANNUAL	CUMULATIVE	YEARS		ANNUAL	CUMULATIVE	ANNUAL	CUMULATIVE
PRIOR TO 1956		24,713	10+	1.0		24,713		
1956	5,107	29,820	10	1.00	5,107	29,820	13.7	9.0
1957	2,393	32,213	9	1.02	2,441	32,261	5.4	8.6
1958	2,564	34,777	8	1.05	2,692	34,953	6.3	8.3
1959	2,016	36,793	7	1.08	2,177	37,130	5.0	8.0
1960	946	37,739	6	1.12	1,059	38,189	2.6	7.6
1961	2,957	40,696	5	1.18	3,489	41,678	8.8	7.7
1962	2,014	42,710	4	1.27	2,558	44,236	5.9	7.5
1963	369	43,079	3	1.41	520	44,756	1.2	7.1
1964	798	43,877	2	1.68	1,340	46,096	2.3	6.7
1965	437	44,314	1	2.29	1,001	47,097	1.4	6.2
1966	74	44,388	0	5.20	385	47,482	0.6	5.8

* FROM FIGURE V-6

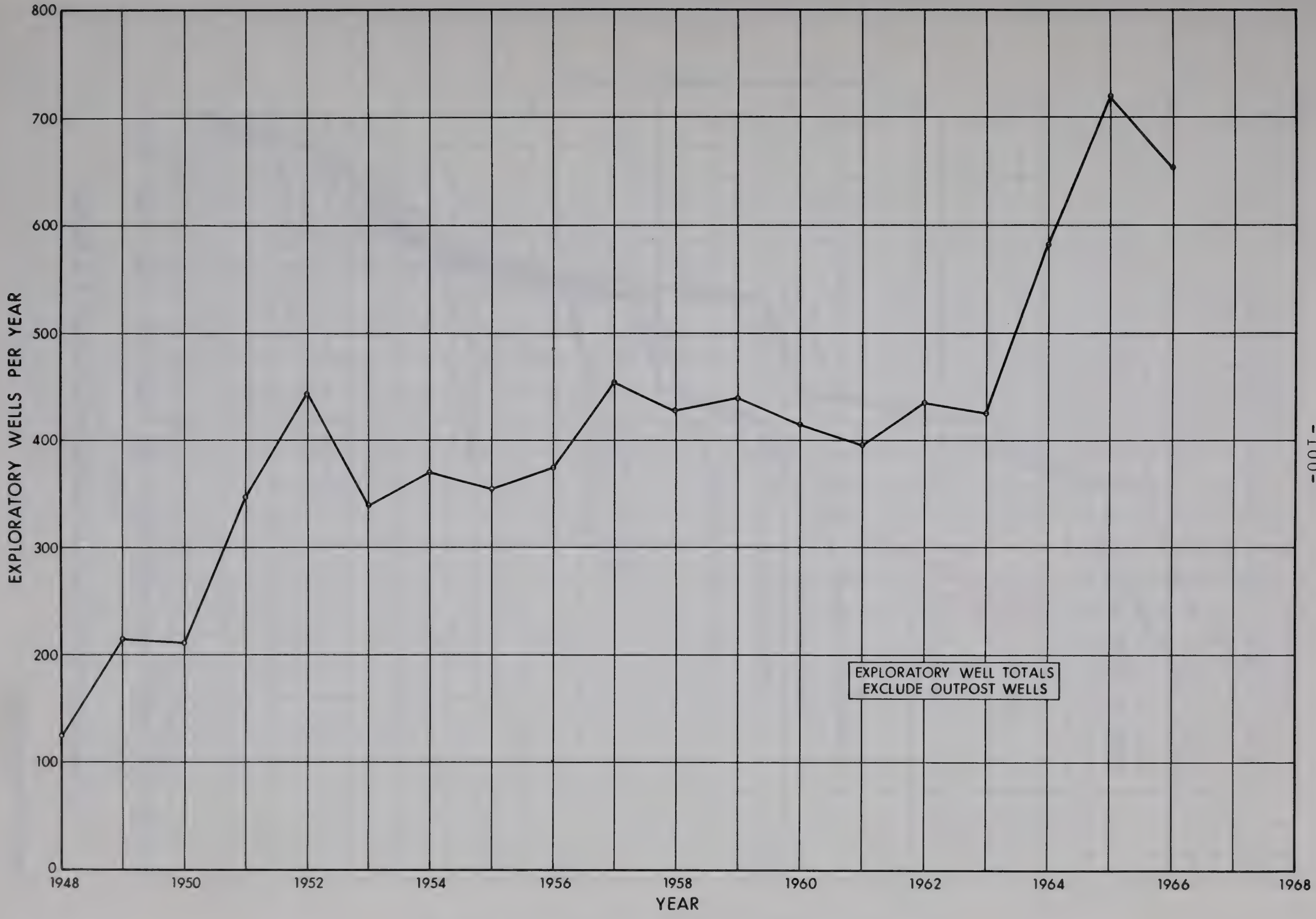

FIGURE V-1 – TRENDS IN EXPLORATORY DRILLING

OIL AND GAS CONSERVATION BOARD
CALGARY, ALBERTA MAY, 1967

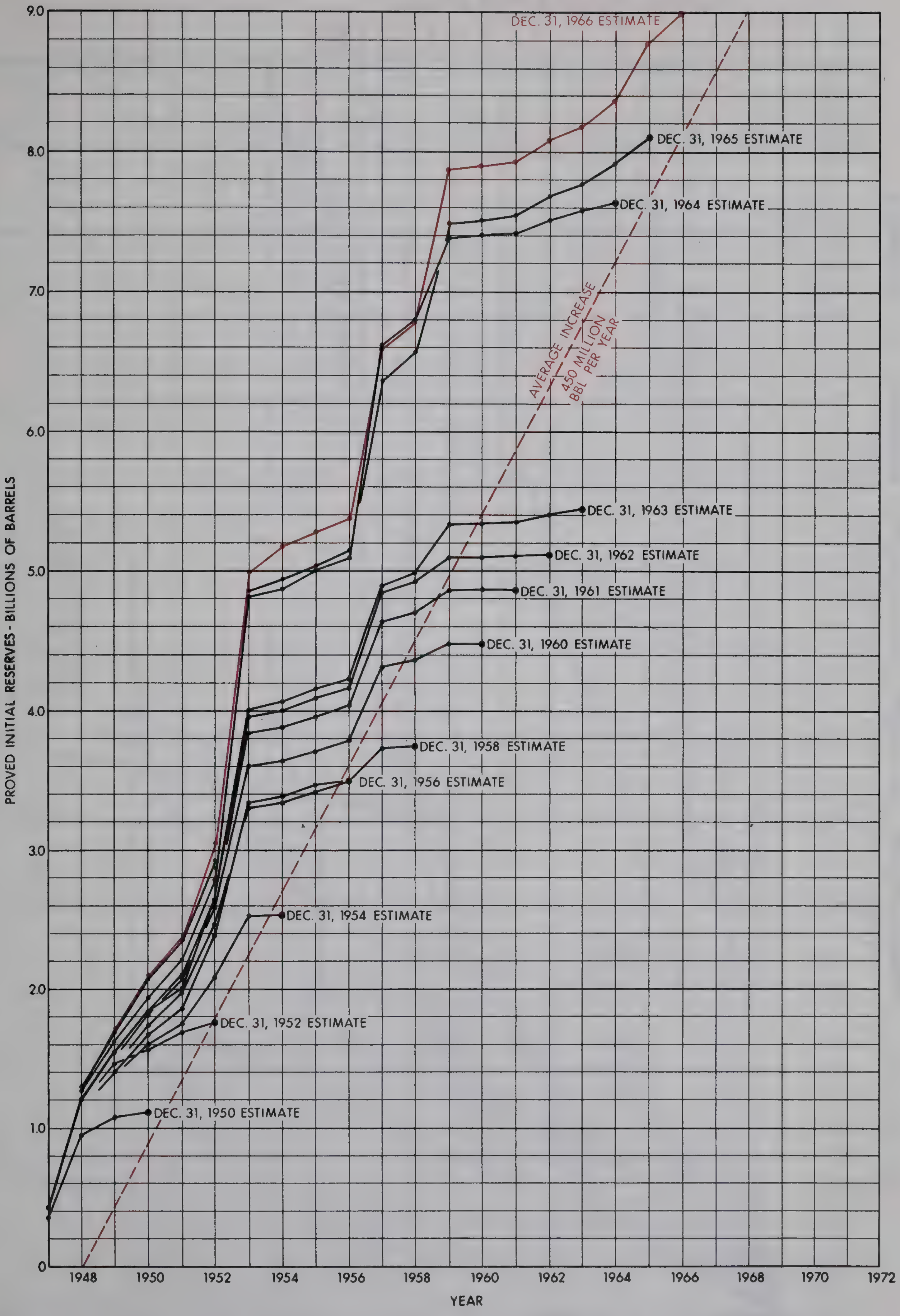

FIGURE V-2 - GROWTH OF PROVED INITIAL CRUDE OIL RESERVES

OIL AND GAS CONSERVATION BOARD
CALGARY ALBERTA MAY, 1967

[illegible]

[illegible]

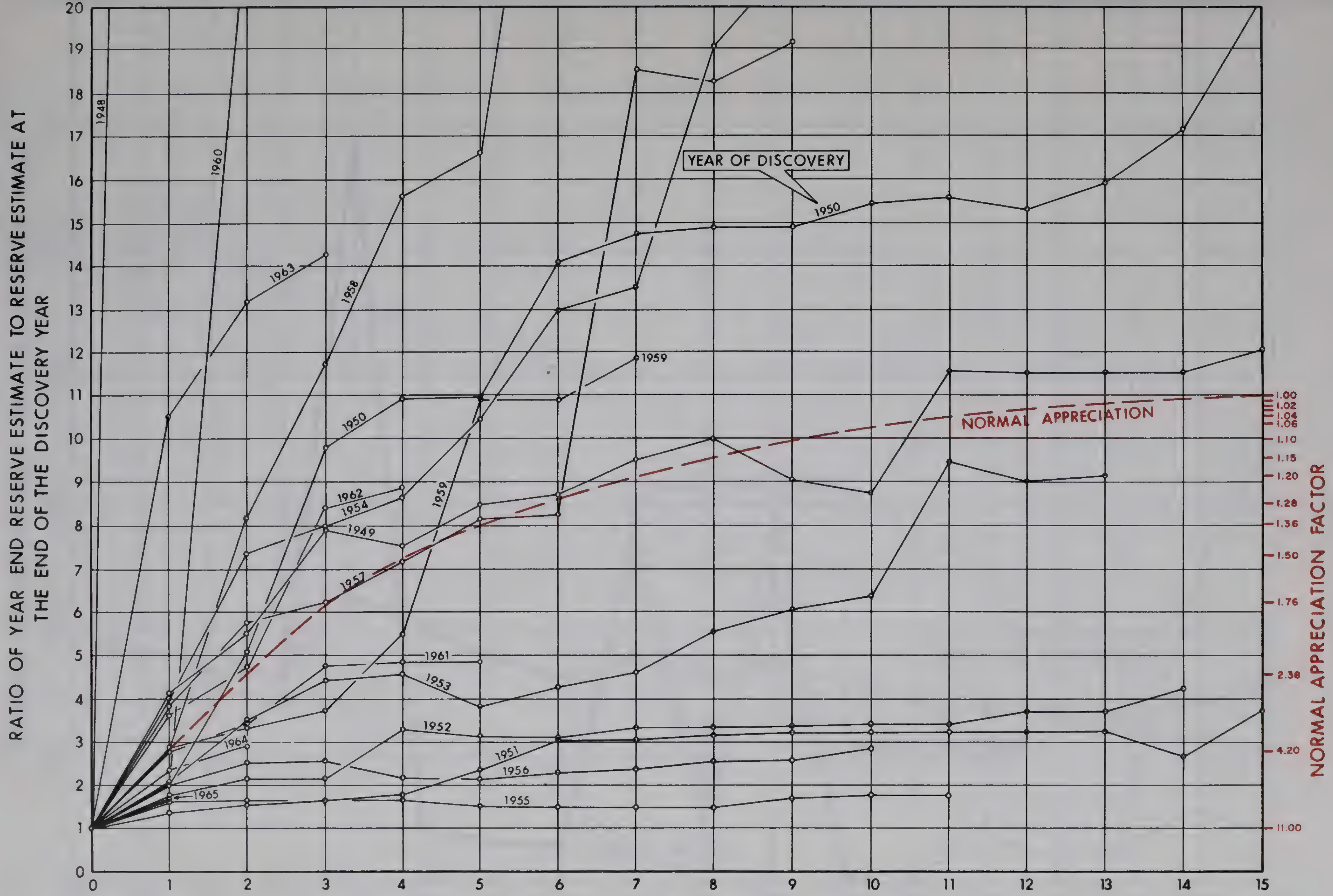

FIGURE V 3 — APPRECIATION OF CRUDE OIL RESERVES REFERRED TO RESERVES AT THE END OF THE DISCOVERY YEAR

OIL AND GAS CONSERVATION BOARD
CALGARY, ALBERTA MAY, 1967

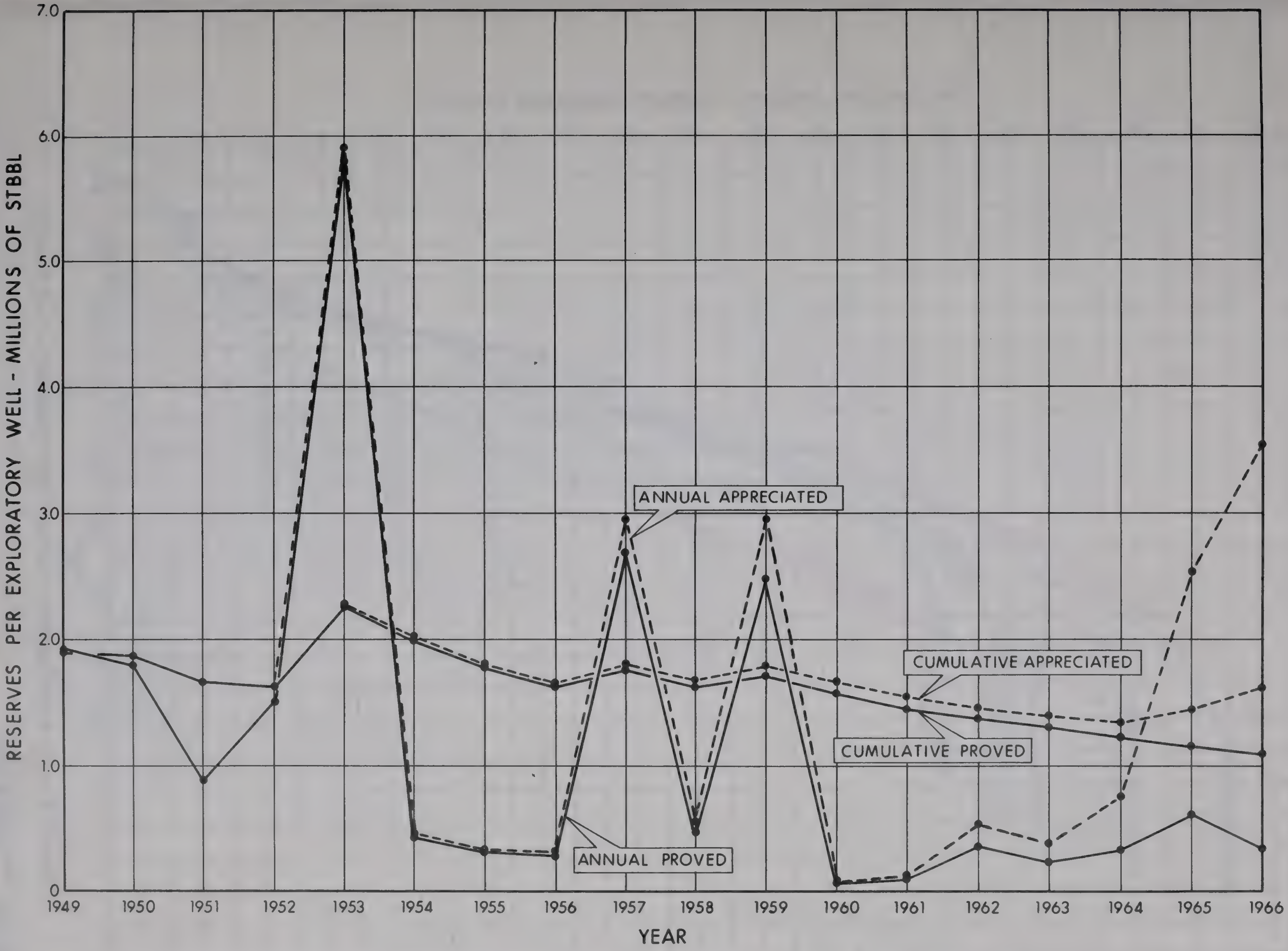

FIGURE V 4 - TRENDS IN THE DISCOVERY OF CRUDE OIL RESERVES PER EXPLORATORY WELL

OIL AND GAS CONSERVATION BOARD
CALGARY, ALBERTA MAY, 1967

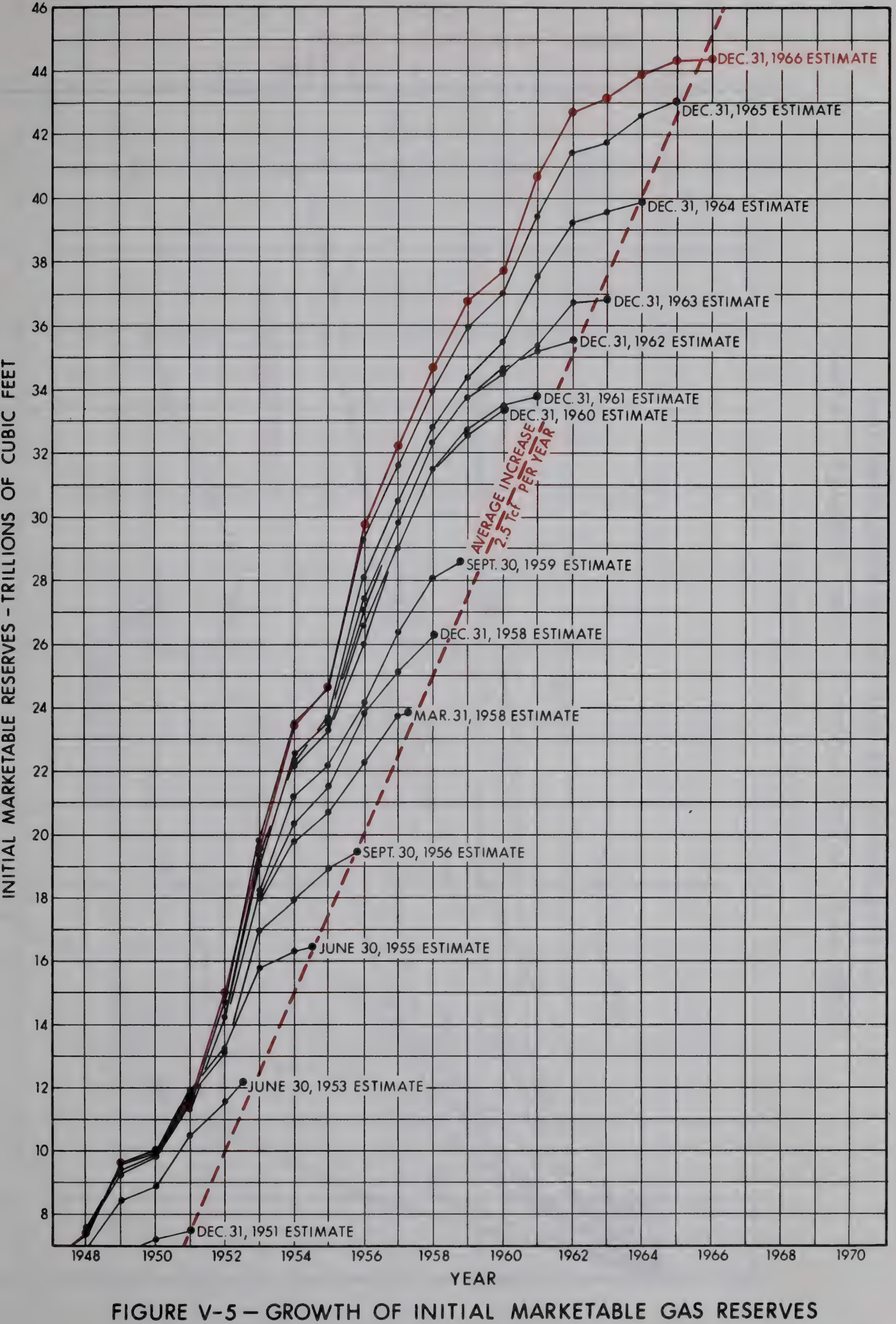

FIGURE V-5 — GROWTH OF INITIAL MARKETABLE GAS RESERVES

OIL AND GAS CONSERVATION BOARD
CALGARY, ALBERTA MAY, 1967

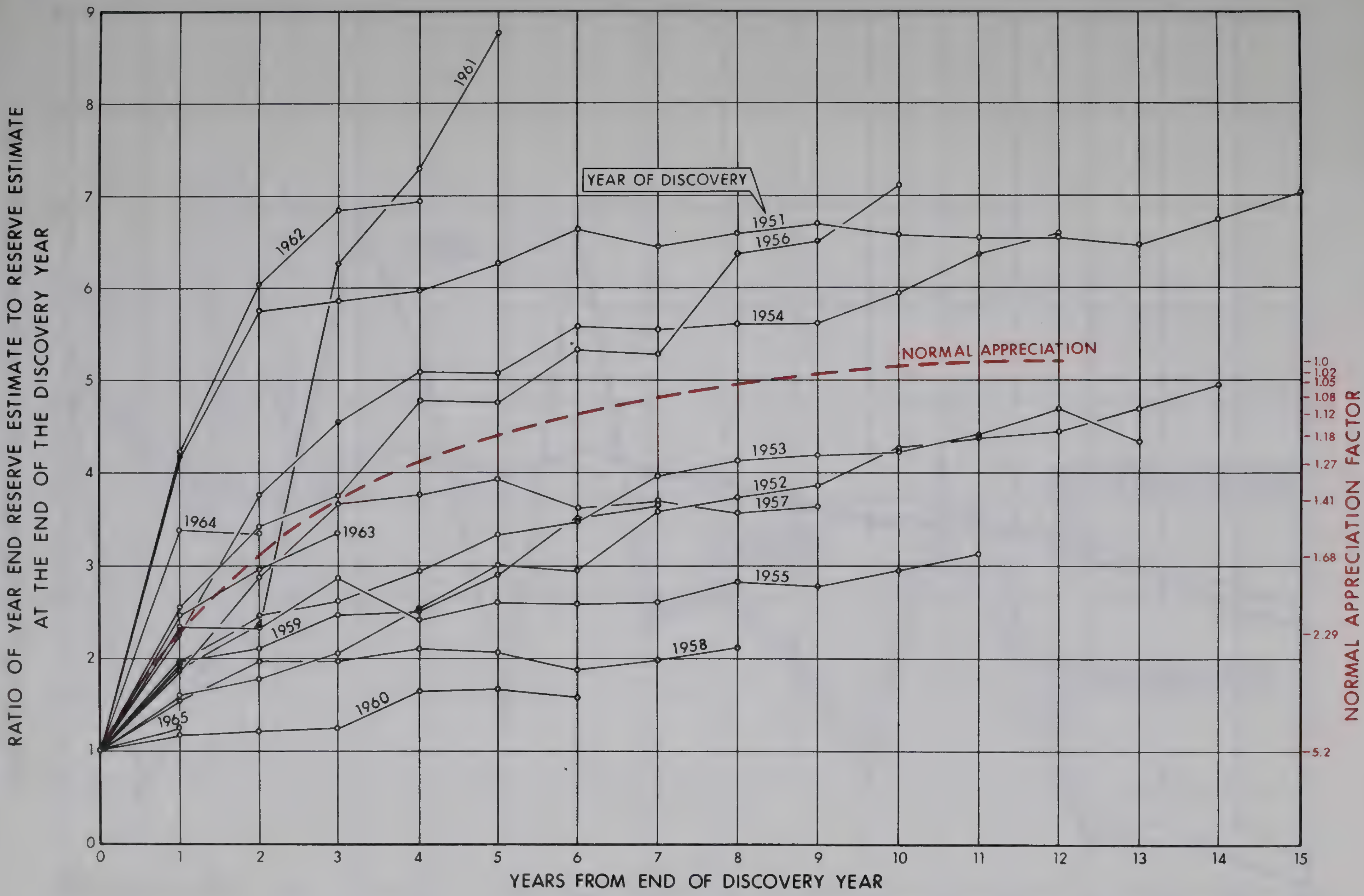

FIGURE V-6 – APPRECIATION OF GAS RESERVES REFERRED TO RESERVES AT THE END OF THE DISCOVERY YEAR

OIL AND GAS CONSERVATION BOARD
CALGARY, ALBERTA MAY, 1967

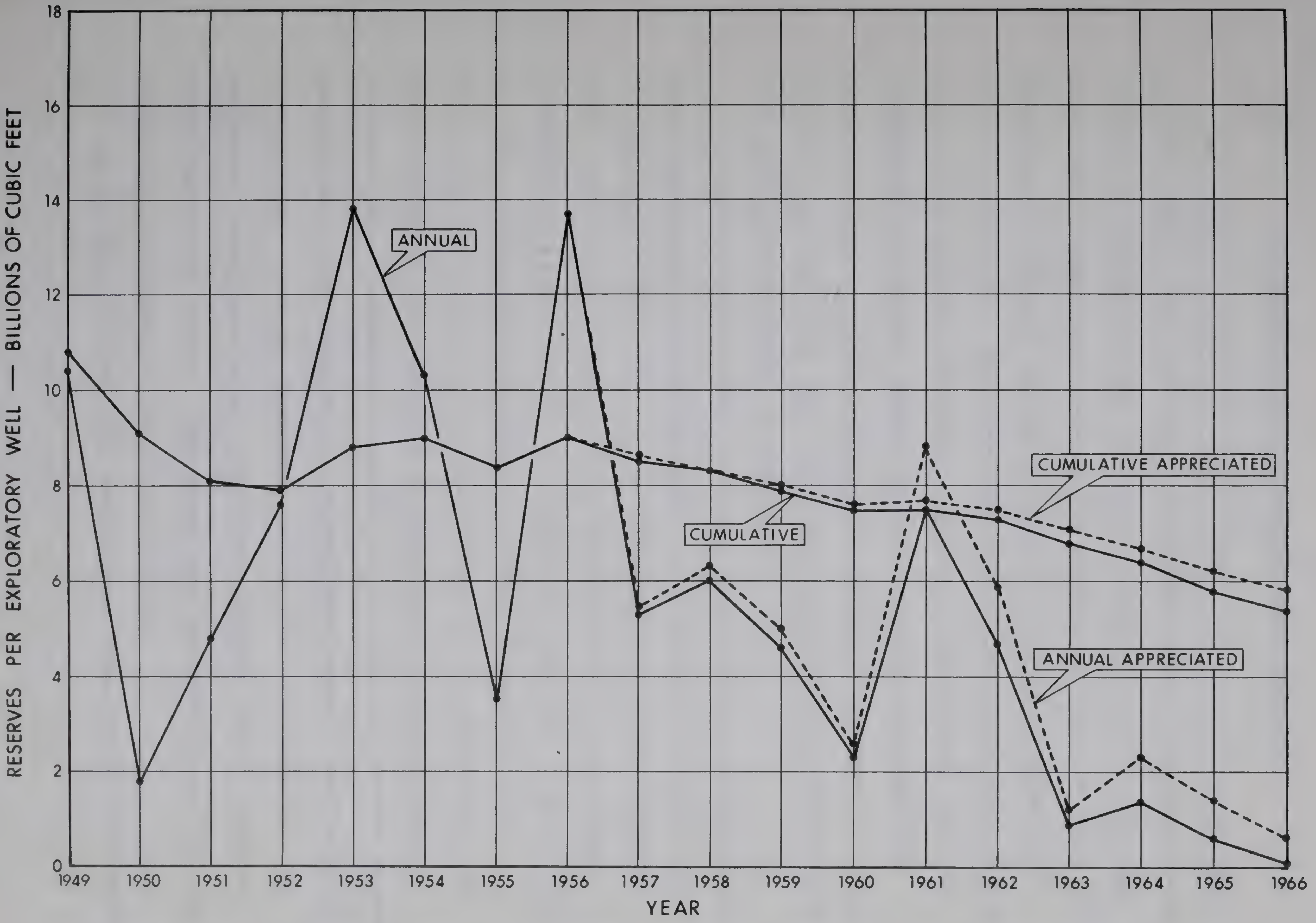

FIGURE V-7 — TRENDS IN THE DISCOVERY OF GAS RESERVES PER EXPLORATORY WELL

OIL AND GAS CONSERVATION BOARD
CALGARY, ALBERTA MAY, 1967

VI ALBERTA CRUDE OIL PRODUCTIVE CAPACITY

An estimate of the Province's crude oil productive capacity is presented in this section. The Board has not prepared a comprehensive estimate of the Province's crude oil productive capacity since changes were made to the proration scheme in May, 1965, including the changes in the procedures governing maximum rates of oil production. The Board believes it desirable that such an estimate be made and published annually. It believes that the assessment should have regard for both the potential and the developed capacity of existing pools and should examine the limitation on movements of crude oil imposed by field facilities and pipe line systems within the Province.

In making its estimate of crude oil productive capacity, the Board has placed primary importance on a detailed assessment of the capacity of the thirty or so largest pools in the Province which contain some 85 per cent of the Province's reserves and a commensurate proportion of its productive capacity. These pools are those having initial reserves of over 50 million barrels. To provide assistance in the preparation of its tabulation, the Board requested the operators in these major pools to submit information on productive capacity at the February reserve hearing, particularly concerning developed wellhead capacity and facility limitations. For the remaining pools, the Board made its own estimates based upon recent production history and its general knowledge of the pools. The Board also contacted pipe line companies for estimates of pipe line capacity.

On the basis of the data supplied by industry and information possessed by the Board, the Board has prepared estimates of four types of productive capacity. The types are: (1) Maximum Efficient Reservoir Capacity, (2) Developed Wellhead Capacity, (3) Developed Capacity Adjusted for Field and Processing Facility Limitations, (4) Developed Capacity Adjusted for Pipe Line System Limitations. The definitions of each are given below.

(1) Maximum Efficient Reservoir Capacity: the estimated sustainable productive capacity of a pool at maximum economic exploitation rate, without detriment to ultimate recovery. This was estimated using both established MER's and MRL's calculated from the PRL formula, adjusted where appropriate to reflect engineering judgment and reservoir knowledge.

(2) Developed Wellhead Capacity: the estimated physical sustainable capacity of existing wells in a pool which now exists or may be achieved within a short term period of approximately one month, subject to any regulatory maximum restriction. The estimate includes allowance for minor well adjustments, such as changes in choke settings, but not for more extensive work such as recompletions and pump installation.

(3) Developed Capacity Adjusted for Field and Processing Facility Limitations: the estimated capacity having regard to limitations attributable to separation, tankage, gathering, processing, injection and other field facilities.

(4) Developed Capacity Adjusted for Pipe Line System Limitations: the estimated capacity having regard to limitations of the main pipe line systems within the Province.

Restrictions due to gathering lines are included in category

(3) above. The Board's assessment is shown in Table VI-1. Only major pools are shown separately and these have been classified by main pipe line system. The entries in any category column are the lesser of the limitation imposed by that category, or the limitation imposed by the preceding category. The data are thus in declining sequence, left to right, since for each column any entry is either equal to or less than the corresponding entry in the column to the left. The bracketed letters after those entries in column 3 which impose a restriction indicate the nature of the restriction.

The table shows the Maximum Efficient Reservoir Capacity of the Province as some 2 million barrels per day which, if related to the Province's remaining crude oil reserves, would result in a life index of some nine years. The Board believes this to be reasonable. As is to be expected, the developed wellhead capacity of some 1.4 million barrels per day is considerably less than the potential figure. The total capacity adjusted for field and processing facility limitations of approximately 900,000 barrels per day is just over 60 per cent of the developed wellhead capacity. The provincial capacity adjusted for main pipe line facility limitations is about 800,000 barrels per day or about 55 per cent of the developed wellhead capacity. As a matter of interest, the average production of crude oil during 1966 was some 555,000 barrels per day, representing about 38 per cent of the developed wellhead capacity and 62 and 69 per cent respectively of the capacity adjusted for field and for main pipe line limitations.

Also of interest is the capacity of current pipe line systems to move oil from the Province. There are three lines involved: Trans Mountain, Interprovincial and Aurora. The combined capacity of these lines, based on published information and information supplied directly to the Board, is some 700,000 barrels per day.

TABLE VI-1

ESTIMATED ALBERTA CRUDE OIL PRODUCTIVE CAPACITY AS AT DECEMBER 31, 1966

Barrels per Day

(1) Fields Classified by Main Pipe Line System	(2) Maximum Efficient Reservoir Capacity	(3) Developed Wellhead Capacity	(4) Capacity Adjusted for Field and Processing Facility Limitations	(5) Capacity Adjusted for Main Pipe Line Facility Limitations
Bow River Pipe Lines Ltd.				
(Bantry, Taber, etc.)	14,000	12,500	12,500	12,500
Britamoil Pipe Line Co. Ltd.				
Fenn-Big Valley D-2 A	51,000	45,300	20,000(G)	
Redwater D-3 (15% of field)	28,000	11,000	11,000(G)(1)	
Others	55,500	40,000	40,000	
Total	134,500	96,300	71,000	48,000
Canadian Industrial Gas & Oil Ltd.				
Joarcam	10,000	9,000	9,000	9,000
Cremona Pipeline				
Harmattan East Rundle	16,000	12,000	6,700(G)(2)	
Harmattan-Elkton Rundle C	15,000	6,800	5,000(L)	
Others	8,200	6,800	6,800	
Total	39,200	25,600	18,500	18,500
Devon Palmer Oil Ltd.				
(Chauvin)	1,000	1,000	1,000	1,000

(1) Fields Classified by Main Pipe Line System	(2) Maximum Efficient Reservoir Capacity	(3) Developed Wellhead Capacity	(4) Capacity Adjusted for Field and Processing Facility Limitations	(5) Capacity Adjusted for Main Pipe Line Facility Limitations
Federated Pipelines Ltd.				
Carson Creek North Beaverhill Lake B	24,000	24,000	6,000(G)	
Judy Creek Beaverhill Lake A	100,000	75,200	27,000(G)	
Judy Creek Beaverhill Lake B	35,000	35,000	9,000(G)	
Swan Hills Beaverhill Lake A & B	200,000	75,000	40,000(G)	
Swan Hills Beaverhill Lake C	44,000	20,000	20,000	
Swan Hills South Beaverhill Lake A & B	110,000	75,000	26,000(G)	
Virginia Hills Beaverhill Lake	50,000	30,000	14,000(G)	
Others	13,000	7,000	7,000	
Total	576,000	341,200	149,000	149,000(3)
Gibson Crude Oil Purchasing Ltd.				
(Bellshill Lake, Hamilton Lake, etc.)	16,000	12,000	12,000	12,000
Husky Oil Canada Ltd.				
(Lloydminster and Wainwright)	12,000	10,000	10,000	10,000
Imperial Pipeline Co.				
Acheson D-3 A	25,000	25,000	10,000(G)	
Golden Spike D-3 A	63,000	63,000	55,000(B)	
Leduc-Woodbend D-2 A	16,800	6,000	6,000	
Leduc-Woodbend D-3 A	54,000	54,000	19,000(G)	

(1) Fields Classified by Main Pipe Line System	(2) Maximum Efficient Reservoir Capacity	(3) Developed Wellhead Capacity	(4) Capacity Adjusted for Field and Processing Facility Limitations	(5) Capacity Adjusted for Main Pipe Line Facility Limitations
Imperial Pipeline Co. (Cont'd)				
Redwater D-3 (85% of field)	162,000	64,000	59,500(G)	
Others	16,600	11,500	11,500	
Total	337,400	223,500	161,000	140,600
Mitsue Pipeline Co.				
Mitsue Gilwood A	50,000	50,000	14,500(L)	
Nipisi Gilwood A (60% of field)	28,000	24,000	7,500(L)	
Others	300	300	300	
Total	78,300	74,300	22,300	22,300
Murphy Oil Co. Ltd.				
(Red Coulee, Cessford, etc.)	1,500	800	800	800
Peace River Oil Pipeline Co. Ltd.				
Kaybob Beaverhill Lake A	33,000	26,000	9,000(G)	
Nipisi Gilwood A (40% of field)	19,000	16,000	5,000(L)	
Snipe Lake Beaverhill Lake	22,000	14,200	13,500(B)	
Sturgeon Lake South D-3	39,000	37,000	37,000	
Others	46,000	33,700	33,700	
Total	159,000	126,900	98,200	72,000
Pembina Pipe Line Co.				
Pembina Cardium	170,000	150,000	150,000	

(1) Field Classified by Main Pipe Line System	(2) Maximum Efficient Reservoir Capacity	(3) Developed Wellhead Capacity	(4) Capacity Adjusted for Field and Processing Facility Limitations	(5) Capacity Adjusted for Main Pipe Line Facility Limitations
Pembina Pipe Line Co. (Cont'd)				
Willesden Green Cardium A (85% of field)	18,000	13,000	13,000	
Others	21,000	11,000	11,000	
Total	209,000	174,000	174,000	150,000
Rainbow Pipeline Co. Ltd.				
Rainbow Keg River A	23,000	10,800	10,200(B)	
Rainbow Keg River B	43,000	43,000	13,000(B)	
Rainbow Keg River F	42,000	42,000	14,600(B)	
Others	30,000	15,000	10,000	
Total	138,000	110,800	47,800	26,000
Rangeland Pipeline				
Innisfail D-3	16,000	16,000	11,000(G)	
Willesden Green Cardium A (15% of field)	2,000	2,000	2,000	
Others	44,000	26,700	26,700	
Total	62,000	44,700	39,700	39,700
Texaco Exploration Co.				
Bonnie Glen D-3 A	100,000	100,000	34,000(G)	
Westerose D-3	25,000	10,000	10,000	
Wizard Lake D-3 A	60,000	60,000	20,000(G)	
Others	5,000	3,000	3,000	
Total	190,000	173,000	67,000	67,000
Twining Pipeline				
(Twining and Twining North)	2,100	800	800	800

(1) Field Classified by Main Pipe Line System	(2) Maximum Efficient Reservoir Capacity	(3) Developed Wellhead Capacity	(4) Capacity Adjusted for Field and Processing Facility Limitations	(5) Capacity Adjusted for Main Pipe Line Facility Limitations
Valley Pipeline				
(Turner Valley)	5,000	4,000	4,000	4,000
Tank Car and Truck	15,000	10,000	10,000	10,000
TOTAL	2,000,000	1,450,400	908,600	793,200

(1) 15% of Redwater Gas Plant capacity is approximately 11,000 barrels per day
(2) Gas compression facility limitation
(3) Pipe line capacity is approximately 152,000 barrels per day

Facility Limitation Key

G = Gas Plant
B = Battery
L = Gathering Line